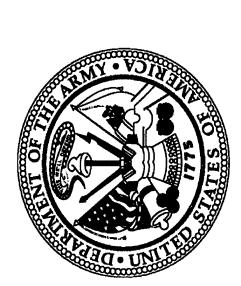
DEPARTMENT OF THE ARMY

Procurement Programs



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Committee Staff Procurement Backup Book FY 2001 Budget Estimate

WEAPONS AND TRACKED COMBAT VEHICLES

February 2000

APPROPRIATION

DETC QUALITY INSPECTED 4.

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Index for WEAPONS AND TRACKED COMBAT VEHICLES

Blin	Nomenclature	SSN	Filename	Page Number
28	ARMOR MACHINE GUN, 7.62MM M240 SERIES	G13000	32472100.01P	220
29	MACHINE GUN, 5.56MM (SAW)	G12900	35632100.01P	226
30	GRENADE LAUNCHER, AUTO, 40MM, MK19-3	G13400	36106100.01P	231
31	M16 RIFLE	G14900	37528100.01P	236
32	XM107, CAL. 50 SNIPER RIFLE	G01500	38165117.01P	242
33	5.56 CARBINE M4	G14904	38198100.01P	247
34	MARK-19 MODIFICATIONS	GB3000	33000132.01P	253
35	M4 CARBINE MODS	GB3007	33010117.01P	257
36	SQUAD AUTOMATIC WEAPON (MOD)	GZ1290	33020117.01P	267
37	MEDIUM MACHINE GUNS (MODS)	GZ1300	33030167.01P	275
38	HOWITZER, TOWED, 155MM, M198 (MODS)	GA0430	33634100.01P	281
39	M119 MODIFICATIONS	GC0401	33640100.01P	285
40	M16 RIFLE MODS	GZ2800	36456117.01P	291
41	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV (GC0925)	GC0925	39280117.01P	297
42	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	GL3200	31862100.01P	301
43	PRODUCTION BASE SUPPORT (WOCV-WTCV)	GC0050	33270144.01P	303
4	INDUSTRIAL PREPAREDNESS	GC0075	33400144.01P	305
45	SMALL ARMS (SOLDIER ENH PROG)	GC0076	34010117.01P	306
46	SPARES AND REPAIR PARTS (WTCV)	GE0150	34540107.01P	309

Index for WEAPONS AND TRACKED COMBAT VEHICLES

Blin	Nomenclature	SSN	Filename	Page Number
	P-1 EXHIBIT			P1-1
~	ABRAMS TRNG DEV MOD	GA5208	30330141.01P	_
2	BRADLEY BASE SUSTAINMENT	G80718	32897141.01P	13
ı m	BRADLEY BASE SUSTAINMENT (ADV PROC)	G80718	32898141.01P	31
4	BRADLEY FVS TRAINING DEVICES	G20900	33078141.01P	37
· rc	HAB TRAINING DEVICES	G84600	33084101.01P	43
ေဖ	BRADLEY FVS TRAINING DEVICES (MOD)	GZ2500	33450141.01P	45
<u>^</u>	ABRAMS TANK TRAINING DEVICES	GB1300	36984141.01P	59
. 00		G81700	37180101.01P	65
ာ	COMMAND & CONTROL VEHICLE	G84200	39850141.01P	69
, 6	CARRIER. MOD	GB1930	30496101.01P	75
: =	FIST VEHICLE (MOD)	GZ2300	31284141.01P	84
. 2	BFVS SERIES (MOD)	GZ2400	31678141.01P	06
<u> </u>	HOWITZER, MED SP FT 155MM M109A6 (MOD)	GA0400	32072157.01P	110
4		GA8010	33638157.01P	116
. 5	IMPROVED RECOVERY VEHICLE (M88 MOD)	GA0570	33700101.01P	122
16	BREACHER SYSTEM (MOD)	GZ3200	34500101.01P	128
17	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD)	GZ3250	34520101.01P	131
. 8	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD)	GZ3000	35224101.01P	136
19	ARMORED VEHICLE LAUNCH BRIDGE SLEP	GZ3050	35420101.01P	138
50	M1 ABRAMS TANK (MOD)	GA0700	36406141.01P	143
21	M1A1D RETROFIT	GA0720	36430141.01P	184
55	SYSTEM ENHANCEMENT PGM: SEP M1A2	GA0730	36453141.01P	187
23	ABRAMS UPGRADE PROGRAM	GA0750	36500141.01P	194
24	ABRAMS UPGRADE PROGRAM (ADV PROC)	GA0750	36501141.01P	205
25	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV)	GA0925	38376101.01P	215
56	ITEMS LESS THAN \$5.0M (TCV-WTCV)	GL3100	33334100.01P	216
27	PRODUCTION BASE SUPPORT (TCV-WTCV)	GA0050	35960144.01P	218

DEPARTMENT OF THE ARMY 2001 PROCUREMENT PROGRAM

Appropriation: "WEAPONS & TRACKED COMBAT VEHICLES"

Activity: 1. **TRACKED COMBAT VEHICLES**

		r	(DOLS)						
NO.	ITEM NOMENCLATURE	₽	FY 00 UNIT		FY 99		FY 00		FY 01
			COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(2)	(8)	(6)	(10)	(11)	(12)
	TRACKED COMBAT VEHICLES								
_	ABRAMS TRNG DEV MOD (GA5208)				8,464		2,628		5,331
7	BRADLEY BASE SUSTAINMENT (G80718)	В			361,638		379,945		359,389
					361,638		379,945		359,389
က	BRADLEY BASE SUSTAINMENT (G80718) ADVANCE PROCUREMENT (CY)								20,006
4	BRADLEY FVS TRAINING DEVICES (G20900)	∢			12,157		23,338		12,098
Ŋ	HAB TRAINING DEVICES (G84600)				383		14,844		
9	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	٧			2,522		4,315		14,038
2	ABRAMS TANK TRAINING DEVICES (GB1300)	∢			13,298		8,050		10,504
80	MEDIUM ARMORED VEHICLE FAMILY (G85100)	∢							537,077
6	COMMAND & CONTROL VEHICLE (G84200)		.00	5	47,712		61,442		
i							·		
:	SUB-ACTIVITY TOTAL				446,174		494,562		958,443

DEPARTMENT OF THE ARMY 2001 PROCUREMENT PROGRAM

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

			(DOLS)						
N S	ITEM NOMENCLATURE	₽	FY 00 LINIT		FY 99		FY 00		FY 01
			COST	QTY	COST	QTY	COST	QTY	COST
Ξ	(2)	(3)	(4)	(2)	(8)	(6)	(10)	(11)	(12)
	MODIFICATION OF TRACKED COMBAT VEHICLES								
10	CARRIER, MOD (GB1930)	∢			54,998		62,810		45,111
7	FIST VEHICLE (MOD) (GZ2300)				24,513		27,115		31,898
12	BFVS SERIES (MOD) (GZ2400)	∢			73,965		31,284		37,142
5	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	∢			11,244		26,824		8,060
4	FAASV PIP TO FLEET (GA8010)	∢			3,131		229		5
5	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	∢			53,588				68,385
16	BREACHER SYSTEM MOD (GZ3200)				4		19,513		
17	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)				49,978		81,901		
81	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	٧			096		1,437		1,692
19	AVLB SLEP (GZ3050)	∢							15,252
20	M1 ABRAMS TANK (MOD)(GA0700)	٧			25,997		31,645		36,098
21	MIAID RETROFTT (GA07 20)								891
22	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)							16	36,149
23	ABRAMS UPGRADE PROGRAM (G0750) LESS ADVANCED PROCUREMENT (PY)				688,209 -259,891 428.318		680,394 -260,738 419,656		551,828 -213,406 338,422
]							

DEPARTMENT OF THE ARMY 2001 PROCUREMENT PROGRAM

Appropriation: "WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

			(DOLS)						
NO E	ITEM NOMENCLATURE	۵	FY 00 UNIT		FY 99		FY 00		FY 01
			COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(2)	(8)	(6)	(10)	(11)	(12)
24	ABRAMS UPGRADE PROGRSM (GA0750) Adv Procurement				260,738		213,406	•	174,445
25	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)						191		
	SUB-ACTIVITY TOTAL				987,430		916,011		793,550
	SUPPORT EQUIPMENT AND FACILITIES								
56	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)				68		137	-	135
27	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)				9,670		8,852		9,250
	SUB-ACTIVITY TOTAL				9,759		8,989		9,385
	ACTIVITY TOTAL				1,443,363		1,419,562		1,761,378
	•								

DEPARTMENT OF THE ARMY 2001 PROCUREMENT PROGRAM

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 2. "WEAPONS AND OTHER COMBAT VEHICLES"

LINE	ITEM		(DOLS) FY 00.		FY 99		FY 00		FY 01
Ö S	NOMENCLATURE	Ω	COST	QTY	COST	QTY	COST	ΩTY	COST
(1)	(2)	(3)	(4)	(2)	(8)	(6)	(10)	(11)	(12)
	WEAPONS AND OTHER COMBAT VEHICLES								
28	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	۷		1,198	11,399	4,297	38,364	1,196	12,449
53	MACHINE GUN, 5.56MM (SAW) (G12900)	⋖		1,525	5,665	3,698	6,903		
30	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	⋖		269	15,064	1,389	22,883	581	11,835
31	M16 RIFLE (G14900)	∢		16,464	6,771	12,479	5,719	10,314	4,793
32	XM107, CAL. 50, SNIPER RIFLE (G01500)						1,133	230	3,085
33	5.56 CARBINE M4 (G14904)	∢		6,310	4,194	8,687	5,286	8,309	5,190
	SUB-ACTIVITY TOTAL				43,093		83,288		37,352
	MODIFICATION OF WEAPONS AND OTHER COMBAT VEH					·			
8	MARK-19 MODIFICATIONS (GB3000)						1,971		1,813
35	M4 CARBINE MODS (GB3007)	¥			6,721		5,292		2,504
36	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)						8,289		9,956
37	MEDIUM MACHINE GUNS (MODS)(GZ1300)	٧							495
38	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)						3,330		3,507
39	M119 MODIFICATIONS (GC0401)	∢			4,772		4,763		4,705
40	M16 RIFLE MODS (GZ2800)	٧			5,197		7,148		9,592
4	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)				1,118		1,002		787
	SUB-ACTIVITY TOTAL				17,808		31,795		33,359

DEPARTMENT OF THE ARMY 2001 PROCUREMENT PROGRAM

Appropriation: "WEAPONS & TRACKED COMBAT VEHICLES"

Activity: 2. **WEAPONS AND OTHER COMBAT VEHICLES**

EN C	ITEM NOMENCIATI IRE	9	(DOLS) FY 00		FY 99		FY 00		FY 01
į		<u>)</u>	COST	ατγ	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(7)	(8)	(6)	(10)	(11)	(12)
	SUPPORT EQUIPMENT AND FACILITIES								
42	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)				1,196		1,201		1,182
43	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)				5,140		4,546		5,152
4	INDUSTRIAL PREPAREDNESS (GC0075)				3,000		3,070		3,604
45	SMALL ARMS (SOLDIER ENH PROG) (GC0076)				2,365		5,133		3,506
						1			
	SUB-ACTIVITY TOTAL				11,701		13,950		13,444
	ACTIVITY TOTAL				72,602		129,033		84,155
								·	

DEPARTMENT OF THE ARMY 2001 PROCUREMENT PROGRAM

Activity: 3. **SPARES AND REPAIR PARTS**

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

		r	(DOLS)						
NO.	ITEM NOMENCLATURE	٥	FY 00 UNIT		FY 99		FY 00		FY 01
			COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(2)	(8)	(6)	(10)	(11)	(12)
	SPARES AND REPAIR PARTS								
46	SPARES AND REPAIR PARTS (WTCV) (GE0150)				20,075		22,738		29,105
	SUB-ACTIVITY TOTAL				20,075		22,738		29,105
	ACTIVITY TOTAL				20,075		22,738		29,105
	APPROPRIATION TOTAL				1,536,040		1,571,333		1,874,638

Exhibit P-40,	Justification Sheet
	Item
	Sudget

								Date:				
		Exhibit P-40, Budget		tem Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomenclature:	ire:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	acked Combat Vehicle	Se				ABRAMS	ABRAMS TRNG DEV MOD (GA5208)	3A5208)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	18.2	3.2	2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4		60.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.2	3.2	2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4		60.1
Initial Spares												
Total Proc Cost	18.2	3.2	2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4		60.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Funding provided will accomplish modifications to Abrams Training Devices required as a result of changes to the Abrams tanks or tank training requirements. These changes are hardware and software modifications to existing equipment to keep simulators abreast of developments in the Abrams Tank System.

use the modified COFT. The Conduct of Fire Trainer (COFT) M1 to M1A1, Optical Improvement (OIP) and Armament Enhancement Initiative (AEI) modifications are for JUSTIFICATION: This program meets needs validated by the Abrams user community. Degradation of tank training will occur if these modifications are delayed or deleted. The Conduct of Fire Trainer (COFT) M60A3 to M1 Conversions are for the National Guard units. Annually, 3,016 tank gunner - commander combinations will units at FORSCOM, USAREUR, TRADOC, and the National Guard.

	Exhibit P-40M Budget Item Justification Sheet	M Budget It	em Justific	ation Sheet			Date		February 2000		
Appropriation / Budget Activity/Serial No.					P-1 Item Nomendature	92					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	ked Combat Vehicle	ē.				ABRAM	ABRAMS TRNG DEV MOD (GA5208)	(GA5208)		
Program Elements for Code B Items			Code	Other Related Program Elements	am Elements						
Description		Fiscal Years									
OSIP NO. Classification	nc	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Conduct of Fire Trainer (COFT) Image Generator (IG) an	mage Genera	tor (IG) and	Computer R	d Computer Rehost/Applique	en						
1-97-05-4526 Operational		2.2	4.1	0.8	0.8	0.8	0.8	0.8	0.8	0.0	11.1
AGTS/SEP Mod											
1-97-05-4527 Operational	_	0.0	0.0	0.0	9.0	1.7	2.9	3.5	2.0	0.0	10.1
Tank Driver Trainer Mod (M1A2 SEP Upgrade)	SEP Upgrade)										
1-97-05-4528 Operational	_	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Close Combat Tactical Trainer (CCTT)/SEP Mod	CTT)/SEP M	N N									
1-97-05-4529 Operational	_	0.0	0.0	0.2	9.0	2.2	1.6	1.3	0.4	0.0	6.3
Maintenance Training System (MTS) SEP Mod	ITS) SEP Mod										
1-97-05-4530 Operational	_	0.0	1.0	1.6	3.3	1.4	0.2	0.2	. 0.2	0.0	7.9
Totals		2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4	0.0	38.8
	•										

						VIDNI	IDUAL 1	INDIVIDUAL MODIFICATION	ATION							Date		February 2000	00	٦
MODIFICATION TITLE:	E Conduc	at of Fi	re Tra	iner	(COF	T) Ime	age Ge	nerato	۲ (IG)	and C	omput	er Ret	ost/Ap	pplique	Conduct of Fire Trainer (COFT) Image Generator (IG) and Computer Rehost/Applique 1-97-05-4526	5-4526				
MODELS OF SYSTEMS AFFECTED: M1 and M1A1	AS AFFECTE	D: M1 &	and M1/	A1 COFTs	FTs															
DESCRIPTION / JUSTIFICATION:	IFICATION:																			
The Image Generator (IG) and computer subsystems that are presently being used in the COFTs are approaching obsolescence. It is	erator (IG)	and α	omput porte	er su	bsyst	ems th	nat are	prese	ntly be	sing us	sed in t	the CC	FTs al	re app	roachin	g obsol	escenc	ir subsystems that are presently being used in the COFTs are approaching obsolescence. It is	ŭ	
repair and replacement parts are becoming more expensive or entirely not available on the commercial market. Likewise, the software	cement pa	rts are	beco	ming .	more	expe	nsive (y are or entir	ely no	t avail	able or	ucsign n the c	omme	rcial m	arket.	Likewis	e, the	software	3	
designed to run on these components is also difficult to sustain. The goal is to obtain a replacement IG and computer that will provide for	on these c	odwo	nents	is als	io diffi	cult to	susta	ii. Th	e goal	is to c	btain :	a repla	cemer	nt IG a	nd com	puter th	at will	provide 1	jo.	
cheaper and easier software changes and more cost effective parts and maintenance. This will position the COFT fleet to support tank units and institutions beyond the year 2000.	sier softwa oeyond the	ire cha year	inges 2000.	and	nore (cost e	ffective	e parts	and n	naintei	nance.	This	will box	sition t	he COF	T fleet	to sup	port tank	units	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	TUS / MAJOF	₹ DEVE	LOPME	NT M	LESTC	NES:					{			4						
								PLANNED			₹	ACCOMPLISHED		급						
Contractor Test and Evaluation:	aluation:							4099	66			4099	<u>0</u>							
Initial Operational Test and Evaluation:	and Evaluatio	Ë						1001	2											****
Installation Schedule:																		-		
	Pr⊀r	۲	FY 1999		\dashv	ŀ	FY 2000	و	\dashv	}	FY 2001	- 1	_	"	2002			FY 2003		T
	Totals	-	7	က	4	-	2	က	4	-	7	8	4	-	2 3	4	티	2	e	4
Inputs	-					o	5	,			4				4	(4		(
Outputs		\dashv	_	\dashv	\dashv	-	+	6	7	m	-	_	7	2		7.	7		-	N
		FY 2004		-		FY 2005	55	F		FY 2006	60	\vdash	"	FY 2007		_	-T		Totals	S
	1	2	3	4	H	2	3	4	-	2	3	4	F	2	3 4		Complete			
Inputs Outputs	2	4		2	7	4		2	7											35 35
METHOD OF IMPLEMENTATION:	IENTATION:		Contractor		Α	SINIMO	TRATIV	ADMINISTRATIVE LEADTIME:	TIME:		9 Mor	Months	PRG	DUCT	PRODUCTION LEADTIME:	TIME	18	Months		
Contract Dates:		FY 1999	666	Š	Mar 99		Œ	FY 2000	Ř	Mar 00			F	FY 2001	Mar 01	_				
Delivery Date:		FΥ	FY 1999	SS	Sep 00		<u>G</u>	FY 2000	တိ	Sep 01			ΕΫ́	FY 2001	Sep 02	2				

			GINIONI	JAI MOD	INDIVIDITAL MODIFICATION					Date	٩	Februs	February 2000	
MODIFICATION TITLE (Cont):	ၓ	Conduct of Fire	e Trainer (COFT) Image Generator (IG) and Computer Rehost/Applique 1-97-05-4526)FT) Ima	age Gene	erator (IG) a	and Compute	er Reho	st/Appliq	lue 1-97-	05-45			
FINANCIAL PLAN: (\$ in Millions)	FY 1998													
	and Prior	FY 1999	FY 2000	FY	FY 2001	۲ 200	7 200	H	FY 2004	FY 2005	35	ဍ	TOTAL	
	Qty \$	Qty \$	Oty \$	ξ	\$	Qty \$	Qty \$	ਰੇ	₩.	ğ	49	Ωty \$	ð	69
RDT&E														
Kit Quantity	1 0.1	9 1.6	Ŋ	0.8	0.8	4 0.8	4	0.8	4 0.8	4	0.8		35	6.5
Installation Kits	2.1													4.6
Installation Kits, Nonrecurring					•									
Equipment														
Equipment, Nonrecurring														
Engineering Change Orders														
Data														
Training Equipment														
Support Equipment														
Other														
Interim Contractor Support														
								-						
Installation of Hardware														
FY 1998 & Prior Eqpt Kits														
FY 1999 Eqpt Kits														
FY 2000 Eapt - Kits														
FY 2001 Eapt - Kits														
FY 2002 Eapt kits														
FY 2003 Eapt kits														
EY 2004 Fant kits														
EV 2005 Font kits														
TO Ferrio-Kits														
Total Installment														
Total Installment					0			0	0		0			7 7 7
Total Procurement Cost	7.7	4.1		0.8	0.8	0.0		0.0	0.0		0.0			-

						_	NDIVIE	UAL	JODIF	INDIVIDUAL MODIFICATION	z							Date		February 2000	2000	T
MODIFICATION TITLE:	AGTS/SEP Mod 1-97-05-4527	/SEP	Mod	1-97.	05-4	527															į	
MODELS OF SYSTEMS AFFECTED: M1A2 Advanced Gunnery Training System	S AFFECTE	ED: M	1A2 A(lvance	1 Gunn	ery T	aining	Systen	_												3	
DESCRIPTION / JUSTIFICATION:	FICATION																					
This funding will modify existing M1A2 Advanced Gunnery Training Simulators to represent the most recent SEP changes to the M1A2. It is cheaper to modify existing training devices than to procure new ones.	modify exy	xistin 3 trair	g M1.	A2 Ac levice	lvanc	ed G n to	unne	iry Tra	aininę w on	g Sim es.	ulato	s to r	epres	ent the	e most	rece	nt SEF	chan	ges to t	he M1A	2. It is	
																						· · · · · · · · · · · · · · · · · · ·
																						-
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJO	OR DE	VELOF	MENT	MILESTONES:	Note	ES:	ፈ	PLANNED				ACC	ACCOMPLISHED	ISHE!							
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	aluation: ind Evaluati	ioi:							ю 4	3Q03 4Q03												
Installation Schadule														i								
	Pr Yr		FY 1999	999				FY 2000	٥			F	FY 2001			9	FY 2002			FY 2003	203	
Inputs	Totals	-	2	3	4		-	7	e	4			2	8	4		2 2	8	4	0 4 0	8	4
Outputs		1					+	1	1													
		FY 2004	8			"	FY 2005	إ	H		E	FY 2006		Ц	<u>[</u>	FY 2007		L	2		Tot	Totals
	1	2	က	4	-		2	3	4	-	2		3	4	-	2	က	4	Complete			1
Inputs Outputs		4 4					4 4	-			4											4 4
METHOD OF IMPLEMENTATION:	ENTATION	1	Contractor	Į.		Ą	INIST	RATIV	ELEA	ADMINISTRATIVE LEADTIME:		9	Months	SL	PROL	SUCTIC 2	NICEA	PRODUCTION LEADTIME:	18	Months		
Contract Dates: Delivery Date:		шш	FY 1999 FY 1999	_ =				ב נב	FY 2000 FY 2000						FY 2001	5 5	Jan 03 Jan 03	= 8				

			AUDIVIDUA	INDIVIDUAL MODIFICATION	z			Date	Februs	February 2000	
MODIFICATION TITLE (Cont):	AC	AGTS/SEP Mod 1-97-05-4527	1-97-05-452	7.							
FINANCIAL PLAN: (\$ in Millions)	Ĺ	F									
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	10	TOTAL	
	Oty \$	Oty \$	Qty \$	Oty \$	Oty \$	Qty \$	Qty \$	Oty \$	Qty \$	Qty	es.
RDT&E											
PROCUREMENT											
Kit Quantity											
Installation Kits					2 1.1	4 2.9	4 2.1	4	2.0	4	8.1
Installation Kits, Nonrecurring				9.0			4.1				2.0
Equipment											
Equipment, Nonrecurring											
Engineering Change Orders											
Data											
Training Equipment											
Support Equipment											
Other								-			
Interim Contractor Support											
						-4-8			-		
									-		
Installation of Hardware											
FY 1998 & Prior Eqpt Kits											
FY 1999 Eqpt Kits											
FY 2000 Egpt Kits											
FY 2001 Egpt Kits											
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits											
FY 2005 Eqpt kits				,							
TC Equip-Kits											
Total Installment											
Total Procurement Cost				9.0	1.1	2.9	3.5		2.0		10.1
											۱

					NDIN	IDNAL	INDIVIDUAL MODIFICATION	CATION								Date		Febru	February 2000	
MODIFICATION TITLE: Tank I	Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528	Traine	ır Mod	(M1A	2 SE	Р Ирд	rade)	1-97-()5-45	28										
MODELS OF SYSTEMS AFFECTED: M1A1 Tank Driver Trainer	ED: M1/	1 Tan	c Driver	Trainer																
DESCRIPTION / JUSTIFICATION:																				
The Tank Driver Trainer (TDT) simulates actual tank performance for beginner and transitioning drivers. It provides a range of motion and simulated environments, terrain and situations which are difficult or impossible for the driver to experience in normal training or operations.	TDT) s terrain	simula and s	ites ac	tual ta	ank period	erform re diffi	ance f	or beginnos	ginne ssible	r and for th	transi ne driv	tionin /er to	g driv expei	ers. I	t provi in noi	des a mal tr	actual tank performance for beginner and transitioning drivers. It provides a range of motion and ations which are difficult or impossible for the driver to experience in normal training or operations.	of mot or ope	ion and rations	73 %
The M1A2 driver's compartment and tasks are significantly different from the M1A1. This project upgrades existing M1A1 Tank Driver Trainers at the Armor School to match student enrollment as more M1A2s enter the field.	irtment	t and match	tasks (π stude	are siנ ∍nt en	inifica rollme	intly d	ifferen	t from M1A2	the Is	MAA1 er the	. This feld.	proje	ect up	grade	s exis	ting M	IA1 Ta	nk Dri	ver	
													:							
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	R DEVE	ELOPM	ENT MI	LESTO	NES:	<u> </u>	PLANNED				ACCC	JMPL	ACCOMPLISHED	(-	
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	ou:						36	3Q00 4Q00												
Installation Schedule:																				
PrYr		FY 1999				FY 2000	2			FY 2001	100			<u>F</u>	FY 2002			F	FY 2003	
Totals Inputs Outputs	-	2	- 1	4	-	1 2	8	4 -	-	1	3	4		_	2	8	4 -	2	8	
	FY 2004		-		FY 2005	35			FY 2006	900			<u> </u>	FY 2007		L	To	L		Totals
-	2	3	4	H	2	3	4	=	2	3	4			2	3	4	Complete			
Inputs Outputs															-					
METHOD OF IMPLEMENTATION: Contract Dates:		Contractor FY 1999	Juc	AD Jun 99	SINIW	TRATIV	ADMINISTRATIVE LEADTIME: FY 2000	TIME:		9	Months		PRODU FY 2001	SUCTIC 01	PRODUCTION LEADTIME: FY 2001	OTIME:	12	Months		
Delivery Date:	F	FY 1999	å	Dec 00		Ĺ	FY 2000						FY 2001	2						

			INDIVIDUA	INDIVIDUAL MODIFICATION	NO			Date	Febru	February 2000
MODIFICATION TITLE (Cont):	Та	ınk Driver Trai	iner Mod (M1,	A2 SEP Upgi	Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528	4528				
FINANCIAL PLAN: (\$ in Millions)	LV 4000	-								
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Qty \$	Qty \$	Ωtγ \$	Qty \$	Oty \$	Gty \$	Qty \$	Oty \$	Ωtγ \$
RDT&E										
PROCOREMEN I		2,								С
Installation Kits		-								1.9
Installation Kits, Nonrecurring										
Equipment										
Equipment, Nonrecurring										
Engineering Change Orders										
Data										
Training Equipment										
Support Equipment				•						
Other										
Interim Contractor Support										
				ď						
							·			
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										-
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits								-		
FY 2002 Eqpt – kits										
FY 2003 Eqpt kits					-	-				
FY 2004 Eqpt kits										
FY 2005 Eapt – kits										
TC Equip-Kits										
Total Installment										
Total Procurement Cost		3.4								3.4

					INDI	/IDUAL	INDIVIDUAL MODIFICATION	ATION							Date		February 2000	8
MODIFICATION TITLE:	Close Combat Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529	ombat	[actica	l Train	er (CC	TT)/SE	P Mod	1-97-	05-452	<u>б</u>								
MODELS OF SYSTEMS AFFECTED: Close Combat	AS AFFECTED	Close C		actical 7	Tactical Trainer (CCTT)	стт)									·			
DESCRIPTION / JUSTIFICATION:	TFICATION:																	
This funding will modify existing Close Combat Tactical Trainer modules to represent the most recent SEP changes to the M1A2.	modify exis	sting Ck	oo esc	mbat .	Factice	I Train	er mod	ules to	repre	sent th	e mos	t recen	t SEP	chang	es to th	e M1A	%	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	TUS / MAJOR	DEVELO		MILESTONES:	ONES:	'				{								
						n.	PLANNED			Ž) 	ACCOMPLISHED	ב					
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	aluation: and Evaluation:						3Q02 4Q02	2 2										
:							*											
Installation Schedule:	;					0000		-		200				2000			2000	
	7 Yr 4	2 2	7 1999 2	1	-		2 6		<u> </u>	2007	~	4	7	2002	4	+	2	3
Inputs	e gan	-	5						-	ī		18] .		8		
Outputs				7				+		-	-	-			0			0
	<u></u>	FY 2004			FY 2005	05			FY 2006			<u>E</u>	FY 2007			₽		Totals
	1	2 3	4	F	7	က	4	-	2	3	4	1	2 3	3 4	රි	Complete		
Inputs Outputs	12		12	4			4											42
METHOD OF IMPLEMENTATION:	fENTATION:	Contractor	tor	`	DMINIS	TRATIV	ADMINISTRATIVE LEADTIME:	IME:	9	Months	:hs	PROL	OUCTION	PRODUCTION LEADTIME:	IIME:	15 N	Months	
Contract Dates:		FY 1999	co.			Ĺ	FY 2000	Mar 00	8			FY 2001	01	Jan 01				
Delivery Date:		FY 1999	6			Ĺ	FY 2000					FY 2001	01					

			MDIVIDUA	INDIVIDUAL MODIFICATION	Ž			Date	Februa	February 2000	
MODIFICATION TITLE (Cont):	ŏ	Close Combat T	Factical Traine	Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529	- Mod 1-97-C	5-4529					
FINANCIAL PLAN: (\$ in Millions)	FY 1998										
	Р	199	8	200	7 200	200	200	20	ည	TOTAL	
	Oty \$	Oty \$	Oty \$	æţ,	Oty \$	Oty \$	\$ A	\$ Ag	\$ Ay	ਣੇ	\$
RDT&E PROCUREMENT											
Kit Quantity											
Installation Kits					18 2.2	8 1.6	12 1.3	4 0.4	+	45	5.5
Installation Kits, Nonrecurring			0.2	0.0							0.8
Equipment											
Equipment, Nonrecurring											
Engineering Change Orders											
Data											
Training Equipment											
Support Equipment											
Other											
Interim Contractor Support											
											-
										٠	
Installation of Hardware							-				
FY 1998 & Prior Eqpt Kits											
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits											
FY 2001 Eqpt Kits											
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits											
FY 2005 Eqpt kits											
TC Equip-Kits											
Total Installment											
Total Procurement Cost			0.2	0.6	2.2	1.6	1.3	0.4	4		6.3

						<u>N</u>	MIDUA	IL MOL	INDIVIDUAL MODIFICATION	NO!								Date		Februs	February 2000	
MODIFICATION TITLE:	Maintenance Training	Jance	Trair	ing 8	syster	ا (<u>آ</u>	S) SI	Ψ	System (MTS) SEP Mod 1-97-05-4530	7-05	4530											
MODELS OF SYSTEMS AFFECTED: M1A2 Maintenance Trainers	S AFFECTE	D: M1≱	2 Mair	tenan	ce Trail	ners																
DESCRIPTION / JUSTIFICATION:	FICATION:																					
This funding will modify existing M1A2 Maintenance Training Systems to represent the most recent SEP changes to the M1A2.	nodify exi	isting	M1A:	2 Mai	ntens	Ince 1	raini	g Sy	stems	to re	prese	int the	e mos	st rec	ent SI	EP ch	ange	s to th	• M1A	حi		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJOR	2 DEVE	LOPM		MLEST	MILESTONES:		PLANNED	NED			\			ACCOMPLISHED							
Contractor Test and Evaluation: Initial Operational Test and Evaluation:	luation: nd Evaluatior	ë							3001 4001													
Installation Schedule:																						
	Pr Yr	"	FY 1999				Ł	8		\perp		FY 2001		\dashv		٤	20			Σ[FY 2003	
Inputs Outputs	Totals	-	7	m	4		2		<u></u>	4	-	77	m	4 2		7		ა 4		2 2	5	
-		7000		+		100c VI	300			ا	500c		\vdash		EV 2007	2			F			Totale
	-	2 2	9	4	7-	7	3		4	-	2 2	3	4	-	2	33	4		Complete			
Inputs Outputs				-																		2
METHOD OF IMPLEMENTATION: Contract Dates: Delivery Date:	ENTATION:	\$ £ £	Contractor FY 1999 FY 1999		, Mar 99	ADMIN	STRA	FY 2000 FY 2000 FY 2000	ADMINISTRATIVE LEADTIME: FY 2000 FY 2000	/E: Jan 00	9 00		Months		PRODUCTION LEADTIME: FY 2001 Jan 01 FY 2001 Sep 01	CTION	V LEADT Jan 01 Sep 01	TIME:	18	Months		
																						l

			NDIVIDUA	INDIVIDUAL MODIFICATION	NO			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	Ms	Maintenance Tra	aining System	າ (MTS) SEP	raining System (MTS) SEP Mod 1-97-05-4530	4530				
FINANCIAL PLAN: (\$ in Millions)	L									
	FY 1998 and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	10	TOTAL
	Qty \$	Qty \$	Oty \$	Qty \$	Ωty \$	Qty \$	Oty \$	Qty \$	Oty \$	Oty \$
RDT&E PROCLIREMENT										
Kit Quantity										
Installation Kits				2 3.3	3.3 VAR 1.4					2 4.7
Installation Kits, Nonrecurring		1.0	1.6			0.2	0.2	0.2		3.5
Equipment										
Equipment, Nonrecurring										
Engineering Change Orders										
Data										
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
							- Marie			
Installation of nardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Egpt kits										
TC Equip-Kits					•					
Total Installment										
Total Procurement Cost		1.0	1.6	33	14	1 0.2	0.2	0.0		7.9

								Date:				
		Exhibit P-40, Budget		em Justific	tem Justification Sheet					February 2000	:	
Appropriation / Budget Activity/Serial No:	riaf No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tre	acked Combat Vehick	SS SS				BRADLEY	BRADLEY BASE SUSTAINMENT (G80718)	r (G80718)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	ım Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Oty	465	80	86	126	140	109	142	142	130	143	237	1812
Gross Cost	591.8	250.9	225.2	361.6	379.9	359.4	408.3	405.7	412.5	438.8	874.9	4709.0
Less PY Adv Proc							11.6	11.4		11.7	19.1	53.6
Plus CY Adv Proc						20.0	2.9		26.0	4.7		53.6
Net Proc (P-1)	591.8	250.9	225.2	361.6	379.9	379.4	399.6	394.3	438.5	431.8	855.8	4709.0
Initial Spares	4.9	2.3	0.3	1.7	9.1	11.5	10.7	10.8	5.1	5.1	50.0	117.0
Total Proc Cost	596.7	253.2	225.5	368.7	389.0	390.9	410.3	405.2	443.7	436.9	905.8	4826.0
Flyaway U/C												
Wpn Sys Proc U/C	1.3	3.2	2.3	2.9	2.8	3.6	2.9	2.9	3.4	3.1	3.8	2.7

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY97-00 provides four years of A3 LRIP vehicles. FY01 marks the first full rate production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

JUSTIFICATION: The FY01 Budget will provide the first year of full rate of production for the A3 upgrade program. The A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization. Quantities are all A0-A2's in FY96 and prior; 45 A0-A2 Linebackers and 35 A3's in FY97; 80 A0-A2ODS and 18 A3's in FY98; 53 A2ODS and 73 A3's in fy99; 60 A2ODS and and 80A3's in FY00; and all A3's thereafter.

A three year multi-year contract is planned for FY's 01-03.

Date Exhibit P-40C Budget Item Justification Sheet	P-1 Item Nomenclature BRADLEY BASE SUSTAINMENT (G80718)	Code Other Related Program Elements	Fiscal Year 2001 2002 2003 2004 2005 2006 2007 11.564 8.442 (11.564) 2.920 (11.657) 7.218 7.160 (11.657) 2.344 2.328 (9.562) (9.488)
dget Item Justification Sheet			2002 2002 2 (11.564) 2.920
Exhibit P-40C Bud	Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	Program Elements for Code B Items	A3 Advanced Procurement Detail (in Mils): FY TOA FY2001 for FY2002 (memo) FY2001 for FY2003 (memo) FY2002 for FY2003 (memo) FY2004 for FY2005 (memo) FY2004 for FY2006 (memo) FY2004 for FY2007 (memo) FY2005 for FY2007 (memo) FY2005 for FY2007 (memo) FY2005 for FY2007 (memo) FY2005 for FY2007 (memo) FY2006 (memo)

Exhibit P-5, Weapon	_	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C!	get Activity/? OF WPNS	Serial No: & TRKD CMBT	<u> </u>	2-1 Line Iten BRADLEY	P-1 Line Item Nomenclature: BRADI EY BASE SUSTAINMENT (G80718)	JENT (G80718)		Weapon System Type:		Date:	February 2000
cost Alialysis		VEHS / 1 / Tracked Combat Vehicles	acked Comb	at Vehicles				(21 222)				-	ary 2000
	Q		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CO	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost	TotalCost		UnitCost	TotalCost	Оŧу	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
BRADLEY BASE SUSTAINMENT (A3)					91536			80720 299225			6125 373270		
TOTAL	┪				361638			379945			379395		

								Date:				
		Exhibit P-40, Budget	0, Budget It	em Justifica	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	MBT VEHS / 1 / Tra	scked Combat Vehick	\$ 8				BRADLEY BAS	BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)	2A2/) (G80716)		
Program Elements for Code B Items:	:52			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	465	45	80	53	09							703
Gross Cost	591.8	7.07	113.4	91.5	80.7	6.1	0.0	0.0	26.1	21.6	0.0	1002.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	591.8	7.07	113.4	91.5	80.7	6.1	0.0	0.0	26.1	21.6		1002.0
Initial Spares	4.9	2.3										7.2
Total Proc Cost	2963	73.0	113.4	91.5	80.7	6.1	0.0	0.0	26.1	21.6	0.0	1009.2
Flyaway U/C												
Wpn Sys Proc U/C	1.3	1.6	1.4	1.7	1.3							

DESCRIPTION: The Brading&Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

Quantities are all A0-A2's in FY96 and prior, 45 A0-A2 Linebackers FY97, and 80, 53 and 60 A0-A2ODS's in FY 98, 99 and 00 respectively.

it P-5, \		Appropriation/ Budget Activity/Serial No:	dget Activit	ppropriation/ Budget Activity/Serial No:		P-1 Line Item	P-1 Line Item Nomenclature:	MENT (M2A2)		Weapon System Type:	уре:	Date: Feb	February 2000
WTCV Cost Analysis		VEHS / 1 / T	racked Cor	VEHS / 1 / Tracked Combat Vehicles			(G80716)	()					,
	₽		FY 98			FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	Qfy	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Óβ	UnitCost	TotalCost	Qty	UnitCost
					000\$	Each	000\$	\$000	Each	\$000	\$000	Each	\$000
1. VEHICLE 2. Other GFE (New) 3. Other GFE (Reman) 4. Contractor Engineering 5. National Guard Fielding					43767 5978 3127 9632 4930	53 53	826 113 59	50217 7043 2971 12374 4911	09	837 117 50			
SUBTOTAL					67434		,	77516					
6. Linebacker Engineering - Contractor 7. Linebacker Engineering - Government					4560 1650								100
SUBTOTAL					6210								
8. PSE 9. BFVS Fielding					8000 9892	·		3204			6125		
TOTAL					91536			80720			6125		
]					1						l	

Exhibi	Exhibit P-5a, Budget Procurement History and Planning	t History	and Planning				,	Cate.	February 2000	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	Type:		P-1 Line Item Nomenclature:	nclature:				Γ
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles					BR/	ADLEY BASE S	BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)	2A21) (G80)		
ements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	απ		Specs Avail		RFP Issue Date
Fiscal Years		and Type			Delivery	Each	000 \$	_4	Avail	Ī
щ	UDLP, York PA	SS/FFP 1	TACOM	Aug-99 Mar-00	Jan-01 Oct-01	90	826	, Yes	운 운	
REMARKS:										

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	UCT	ION SC	HED	ULE			_	BRADLEY		BRA	OLEY I	3ASE	SUST,	BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)	NT (N	2A2I)	(G807	16)									February 2000	2000			
				PROC	⊢	_	H				Fis	cal	Fiscal Year 98	88				\dashv					-isc	Fiscal Year 99	ar 99						
	Σ		S	ğ	_		Ш 							Calendar Year 98	dar	Year	86	ŀ	ŀ	ł	┥	ŀ	ŀ	릥	曺	۳١	99	ŀ	ļ	∢	
COST ELEMENTS	uα	F	ш к >	Each	5 t T 0CT	AS OF 1 OCT	π₽ 00⊢	Z O >	пшо	¬ ∢ z	ппв	≥ < ¤	< □ ¤	≅∢≻	っって	ر د د د د د	V ⊃ ७	ош σ	001	z 0 >	O III O	¬ ∢ z	T II B	2 4 L		¬ ⊃ Z ∑ ∢ ≻		ע⊃ ७ 	ωшσ	⊢ш∝	
1. VEHICLE	1	97& PR	٧	202	332	170	14	14	12	1	6	10	10	10	10	9	8	8	_	8	8	4	4	4	4	3 2	2				П
	1	FY 98	٧	80	0	80									<		\dashv			\dashv	┥	\dashv		\dashv	\dashv	-	_	4	3	۲	
	1	FY 99	٧	53	0	53	_												\dashv	\dashv	┥	\dashv	\dashv	_	-	\dashv	4	<u> </u>	_	જ	
	1	FY 00	Α	09	0	9													\dashv	\dashv	\dashv		\dashv	႕	\dashv	\dashv	_	-	_	8	
					L														Н	-	Н			_		\vdash					
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							H									Н			\dashv			\dashv	\dashv	-	\dashv						
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								Н	\Box								\dashv		-	\dashv	\neg	-	\vdash	\dashv	\dashv	\dashv	4	_	_		T
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								Н												\blacksquare	\dashv	\dashv	\neg				\dashv	\dashv			П
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P-1 Item Nomenclature:

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		Exhibit P-40, Budget	_	em Justific	tem Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomendature:	ire:					
PROCUREME	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / TR	acked Combat Vehic	les	- 			BRADLEY BAS	BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	(C80717)		
Program Elements for Code B Items:	ems:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv		35	18	73	80	109	142	142	130	143	237	1109
Gross Cost	0.0	180.2	111.8	270.1	299.2	353.3	408.3	405.7	386.4	417.1	874.9	3707.0
Less PY Adv Proc							11.6	11.4		11.7	19.1	53.6
Plus CY Adv Proc						20.0	2.9		26.0	4.7		53.6
Net Proc (P-1)	0.0	180.2	111.8	270.1	299.2	373.3	9.666	394.3	412.4	410.2	855.8	3707.0
Initial Spares			0.3	7.1	9.1	11.5	10.7	10.8	5.1	5.1	50.0	109.8
Total Proc Cost	0.0	180.2	112.1	277.2	308.3	384.8	410.3	405.2	417.6	415.3	905.8	3816.7
Flyaway U/C												
Wpn Sys Proc U/C		5.1	6.2	3.8	3.9	3.5	2.9	2.9	3.2	2.9	3.8	3.4
										:		:

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY97-00 provides the first four years of A3 LRIP vehicles. FY01 marks the first full rate production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime JUSTIFICATION: The FY01 Budget will provide the first full rate production year for the A3 upgrade program. The A3 upgrade program will provide digital contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

A three year multi-year contract is planned for FY's 01-03.

Exhibit P-40C Budge								[
	: Budget Item Justifi	t Item Justification Sheet			Date 		February 2000	
Appropriation / Budget Activity/Serial No.			P-1 Item Nomendature					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	ed Combat Vehicles				BRAD	LEY BASE	BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	
Program Elements for Code B Items	Code	Other Related Program Elements	ram Elements					
A3 Advanced Procurement Detail (in Mils): FY TOA FY2001 for FY2002 (memo) FY2002 (memo) FY2002 for FY2003 (memo) FY2003 (memo) FY2004 for FY2005 (memo) FY2004 for FY2006 (memo) FY2005 for FY2007 (memo) FY2005 for FY2007 (memo) FY2005 for FY2007 (memo) FY2007 (memo) FY2007 (memo)	Fiscal Year 2001 11.564 8.442	2002 2 (11.564) 2.920	2003 20	2004 2 11.657 7.218 7.160	2005 2006 (11.657) 2.344 2.328 (9.563)	l ``	(9.488)	

Exhibit P-5, Weapon WTCV Cost Analysis	4	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT	dget Activity r OF WPNS	//Serial No:		P-1 Line Iten BRADLEY	P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3)	MENT (M2A3)		Weapon System Type:		Date: Febru	February 2000
	9	VEHS/1/1	EV OR	VEHS / 1 / Iracked Combat Venicles		FV 99	(G80717)		EY 00			FY 01	
Cost Elements	: B	TotalCost	λįσ	UnitCost	TotalCost	₽	UnitCost	TotalCost	Oţ.	UnitCost	TotalCost	ĝ	UnitCost
					\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
1. Vehicle 2. IRAS					126480	73	1733	141575	8 8	1770	168761	109	1548 365
					37353	2 9	491	32778		410	, 4		408
4. Other GFE 5. Beman (Contractor)					6572	73	06 4 <u>7</u>	10324	08 08	129	9049		
					1591	73	22	1573		20	2059	109	19
SUBTOTAL					225755			217453			264135		
7. Engineering-Government 8. Engineering-Contractor					14605			14516 37773			14734 44046		
 Project Management Administration Reimbursable Matrix Support Test and Evaluation 					3099 3013 5969			3115 3367 8135			3162 3454 1030		
SUBTOTAL					43920			90699			66426		
 Cummins Engine Life-of-Type (LOT) Buy Peculiar Support Equipment 								8008			14418		
14. Classroom Spares 15. Fielding					427			6798			8285		
SUBTOTAL					427			14866			22703		
TOTAL					270102			299225			353264		
Gross P-1 End Cost Less: Prior Year Adv Proc					270102			czz66z			353264		
Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc					270102			299225			353264 20006		
Other Non P-1 Costs Initial Spares					7070			9132			11516		
Mods TOTAL					277172			308357			384786	4.7	

	Exhib	Exhibit P-5a. Budget Procuremer	nt Histor	curement History and Planning				<u> </u>	Date:	February 2000	8
Appropriation / t	Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	clature:				
PROCURE	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles					BRA	ADLEY BASE S	BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	A3) (G80)	17)	
WBS Cost Elements:		Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	αту	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$000	Now?	Avail	
1. Vehicle											
FY 99		UDLP, York PA	SS/FFP	TACOM	Nov-98	Mar-00	73	1733	YES	9	
FY 00		UDLP, York PA	SS/FFP	ТАСОМ	May-00	Apr-01	80	1770	YES	9	
FY 01		UDLP, York PA	MY/FFP	TACOM	Mar-01	Apr-02	109	1548	YES	9	
2. IBAS						•					
F 88		RTIS, DALLAS TX/ DRS CA	C/FFP	АМСОМ	Nov-98	Feb-00	73	285	YES	9	
FY 00		RTIS, DALLAS TX/ DRS CA	C/FFP	AMCOM	Jan-00	Feb-01	80	390	YES	2	
FY 01		TBD	MY/FFP	АМСОМ	Dec-00	Feb-02	109	365	YES	9	
3. FLIR											
F 99		RTIS, DALLAS TX	SS/FFP	NVL	Jan-99	Dec-99	9/	491	YES	9	
FY 00		RTIS, DALLAS TX	MY/FFP	NVL	Jan-00	Dec-00	80	410	YES	2	
FY 01		RTIS, DALLAS TX	MY/FFP	NVL	Jan-01	Dec-01	109	408	YES	<u>9</u>	•
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REMARKS:	Multi year procurements (FY01-03) for Vehicle, and IBAS.	ehicle, and IBAS.									

Multi year procurements (FY01-03) for Vehicle, and IBAS. Multi year procurement (FY00-01) for FLIR

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	UCTIO	Z SCF	LEDUL	щ			<u>-</u>	F-I Itelli IVOITERICIALUIE. BRADLE	2	BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	EY BY	SE SU	STAIN	MEN	. (M2A	3) (6	(2117)								Į.	February 2000	ary 20	8		
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		FY04	Α	130	0	130				Н	-	Н	Н	Щ															7	130
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		Exhibit P-40, Budget I		tem Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	acked Combat Vehicle	se				BRADLEY BASE S	BRADLEY BASE SUSTAINMENT (ADV PROC) (G80718)	/ PROC) (G80718)		
Program Elements for Code B Items:	15:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less PY Adv Proc												
Plus CY Adv Proc			0:0	0.0	0.0	20.0	2.9	0.0	26.0	4.7		53.6
Net Proc (P-1)	0.0	0.0	0.0	0.0	0:0	20.0	2.9	0.0	26.0	4.7	0.0	53.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	20.0	2.9	0.0	26.0	4.7	0.0	53.6
Flyaway U/C												
Won Svs Proc U/C												

Won Sys Proc U/C
DESCRIPTION: Advance Procurement for EOQ material.

JUSTIFICATION: EOQ funding supports more economical buys than can be achieved with single year procurements.

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Advance Procurement Requirements Analysis-Funding (P-10A)	rement	s Analy	sis-Fund	ling (P-10	A)	Decem	December 1999		April 2001	2001			February 2000	
Appropriation / Budget Activity/Serial No:							P-1 Line Item N	P-1 Line Item Nomenclature / Weapon System:	/eapon System:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	PNS & TRK	D CMBT VE	HS / 1 / Tracker	d Combat Vehicl	se				BRADLEY BA	BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)	ENT (ADV PRO	C) (G80717)	•	
								(\$ in Millions)	illions)					
	PLT (mos)	When Reg'd*	Prior Years	1997	1998	1999	2000	2001	2002	2003	2004	2005	To	Total
Economic Order Quantity 1 Vehicle	17			35	18	73	80	109	142	142	130	143	237	1109
Yenicle Flat Panel Display Commander's lindependent Viewer POS/NAV	7 9 7 9							7.0 4.0 0.7			5.9 0.9			4.5 9.9 9.0 1.6
5. Turret Processing Unit6. Hull Processing Unit7. Gunner's Hand Station	5 5 9							0.8 0.5 0.2			1.1 0.6 0.3			e: L. L. 7:
Commander's Hand Station Position Interface Box Transmission Truret Drive	9999							0.2 0.6 0.6			6.0 6.0 8.0 8.0 8.0			4. c. 4.1 0.1
12. Turret Drive Control Unit 13. IBAS 14. Termination Liability	ο <u>ε</u>					1112		0 0 0	2.9		10.5	4.7		27.1
Total Advance Procurement								20.0	2.9		26.0	4.7		53.6
Description: *Number of months (Column 3) refers to in EOQ funding four one four-year multiyear and one three-year multiyear.	ths (Col	umn 3) e three-ye	refers to ar multiyear	integration	η об сотр	onents, n	oot to EO(refers to integration of components, not to EOQ material.		·				

Advance Promisement Beamirements Analysis-Budget - Histification (P-10B)	emente	Analysis-F	Sudaet .lus	tification (P	-10B)			Date: February 2000	2000
Advance Floodiement Negan		Cic (in in and Sor on	יווסמיוטוי	To a line line Monopolation	(Manney Combons				
Appropriation / Budget Activity/Serial No:					P-1 Line Item Nomenclature / Weapon System:	y / Weapon System:			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	TRKD CMB	r VEHS / 1 / Tracke	Combat Vehicles			BRADLEY BASE	BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)	/ PROC) (G80717)	
						(\$ in Millions)			
		Quantity			2000			2001	
	PLT	Per	Cuit	į	Contract	Total Coet Bornest	ð	Contract Forecast Date	Total Cost Reguest
Economic Order Quantity (EOQ)	(soll)	Assembly	1803	9	Lorecast Date	1600	109	Mar 01	
1. Vehicle 2. Flat Panel Display 3. Commander's lindependent Viewer 4. POS/NAV 5. Turret Processing Unit 6. Hull Processing Unit 7. Gunner's Hand Station 8. Commander's Hand Station 9. Position Interface Box 10. Transmission 11. Turret Drive 12. Turret Drive 13. IBAS 14. Termination Liabality Total Advance Procurement	<u> </u>	- N	4 4 4 4 4 4 4 4 4 4 4 7 Z Z Z Z Z Z Z Z					Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01	2.7 4.0 0.4 0.5 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
Description: Quantity and unit cost are not applicable. Funding is for EOQ material, not full up components.	cost aı	re not applic	able. Fund	ling is for EC	Od material, not fu	ull up components			

Advance Procurement Requirements Ana	rements A	nalvsis-Pr	Ilvsis-Present Value Analysis (P-10C)	ie Analysi	s (P-10C)					Date:	February 2000	
Appropriation / Budget Activity/Serial No:					P-1 Line Item Nor	P-1 Line Item Nomendature / Weapon System:	on System:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS /	TRKD CMBT VEH	S / 1 / Tracked Co	1 / Tracked Combat Vehicles				BRADLEYB	ASE SUSTAINME	BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)	(G80717)		
						(\$ in Millions)	llions)					
		2007	9007	4000	0000	7000	.000	0000	7000	2006	To	Total
	Pr Yrs	7661	1998	8881	7007	1007	7007	5007	7007	2007	duios	ora
Proposal w/o AP Then Year Cost Constant Year Cost Present Value						36673 35947 36189	156622 150990 150482	248221 234791 232236	276250 256190 251664	276768 251630 245493	891488 775333 745015	1886022 1704881 1661079
AP Proposal Then Year Cost Constant Year Cost Present Value						36141 35425 35664	148849 143497 143014	220097 208189 205923	234693 217651 213805	239968 218173 212852	781373 679609 653050	1661121 1502544 1464307
AP Savings (Difference) Then Year Cost Constant Year Cost Present Value						532 521 525	7773 7493 7468	28124 26602 26313	41557 38539 37858	36800 33458 32642	110115 95723 91966	224901 202338 196772
Remarks: There are currently no proposals; these are estimates.	/ no propos	als; these a	are estimat	es.								

Pi Les less Viscopiesant Name Page Pag	Advance Proclirement Regi	ireme	nts Ang	lvsis-Exe	Cution (F	,-10D)								Date: F	February 2000	
## Procuediation of waters in Those Control Version 1998 1	Appropriation / Budget Activity/Serial No:			11) 310 E.M.	1 1000		ľ	P-1 Line Iten	n Nomenclature /	Weapon Syster	Ë					
Figure Contract Actual Contract Contract Actual Contract Contra	PROCUREMENT OF	APNS & TE	₹KD CMBT \	/EHS / 1 / Tracke	rd Combat Vehi≀	cles				BRADL	EY BASE SUST	TAINMENT (AD)	V PROC) (G8	30717)		
1989 Contract 1989 Contract Contra									(\$ in M	Illions)						
The contract Actual Total Total Actual Total Actual Total Actual Total Actual Total Tot					1998					1999			20	000	20	01
Henry Certain Community (1) Community (2) Community (3) Community (4) Community (4) Community (5) Community (6) Community (6) Community (7) Co		PLT (mos)		Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	ş	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	aty	Contract Forecast Date
Description: Planned advance procurement history.	End Item 1. Vehicle 2. Flat Panel Display 3. Commander's lindependent Viewe 4. POS/NAV 5. Turet Processing Unit 6. Hull Processing Unit 7. Gunner's Hand Station 8. Commander's Hand Station 9. Position Interface Box 10. Transmission 11. Turret Drive 12. Turret Drive Control Unit 13. IBAS															Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01
	Description: Planned advance procureme	ni. No	advanc	ce procure	ment hist	. بره								· .		

Column Experiment Experim	P-1 Line Item Nomendature / Weepon System: BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717) Apr May Jun Jul Aug Sep (Cum) Apr May Jun Jul Aug Sep (Cum) Camp Apr Calculated based on a percentage of the bill of	Advance Procuren	nent Reau	irement	s Analysi:	s-Obligat	tions/Exp	enditures	(P-10E)							February 2000	
Program Cot Nov Dac Jan Feb Mar Apr Minor Apr Jun Jul Aug Sep (Cum) Cum Cu	Total Tota	Appropriation / Budget Activity/Se	irial No:			,				P-1 Line Item N	lomenclature / V	Veapon System.					
Total Tota	Total Total Total Total	<u>4</u>	OCUREMENT (OF WPNS & TE	RED CAMBIT VEH	S/1/Tracked (Combat Vehicles	_				BRADLEY B.	ASE SUSTAINA	AENT (ADV PRC)C) (G80717)		
Total Program Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Chm	Total 1989 Program Cost Nev Dec Jan Feb Mar Apr May Jun Jul Aug Sep (Cum)								in Millions)								
Total Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep (Cum) Aug Aug Sep (Cum) Aug Sep (Cum) Aug Sep (Cum) Aug Au	Program Oct Nov Dec Jan Feb Mar Apr May Jun Aug Sep (Cum) Program									00						Total	Ending
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	re is no termination liability within this advance procurement line.		Program	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	deS	(Cum)	(Cum)
	re is no termination liability within this advance procurement line.	FY 98 PY Termination Liability Schedule PY Expenditures FY 99 CY Termination Liability Schedule															
		CY Expenditures FY 00 Termination Liability Schedule FY 01 Termination Liability Schedule															

								Date:				
		Exhibit P-40, Budget		em Justifica	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Ve	CMBT VEHS / 1 / Tre	icked Combat Vehicles	Se				BRADLEY FV	BRADLEY FVS TRAINING DEVICES (G20900)	ES (G20900)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	224.9	9.0	0.0	12.2	23.3	12.1	2.6	3.2	2.5	2.5	18.2	302.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	224.9	9.0	0.0	12.2	23.3	12.1	2.6	3.2	2.5	2.5	18.2	302.0
Initial Spares												
Total Proc Cost	224.9	9.0	0.0	12.2	23.3	12.1	2.6	3.2	2.5	2.5	18.2	302.0
Flyaway U/C												
Wpn Sys Proc U/C												

Combat Tactical Trainer (CCTT) simulation. The focus is on the unit level collective training in maneuver and command and control. In this configuration, BATS utilizes the Master Control Console from the CCTT and does not have the instructor/operator station. It does have drivers and squad compartments. Basis of issue for the precision gunnery training and comes with an Instructor/Operator's station and a remote monitoring station. The basis of issue for the gunnery version is one per mechanized infantry battalion and eight each at the USAARMS and USAIS. Total requirement is 32. The second configuration is maximized for use in the Close Description: The Bradley Advanced Training System (BATS) is a crew station simulator for the BFVS A3 turret. There are two configurations. One is used for maneuver version is 14 per installation equipped with BFVS A3s plus TRADOC requirements. Total requirement is 72.

Bradley Desktop Trainers (BDT) are computer workstations running the actual M2A3 software. It is equipped with touch-screen monitor, commander's handstation and data entry tool. This trainer facilitates the new equipment and sustainment training on the commander's tactical display and digital command and control software. Basis of issue is four per mechanized infantry battalion.

The M2A3 Maintenance Trainer will be used at the TRADOC installations to train the maintenance personnel. The system will consist of a Hands-on Turret Trainer (HOTT) and a computer workstation for classroom training. It is similar to the trainers in use for the Abrams tank system. Basis of issue is 8 HOTT and 32 workstations for US Army Armor School.

also significantly different. The increased cost of actual vehicle hardware mandates the increased use of Trng Aids, Devices and Simulators. The requirement for these devices is the result of a detailed training analysis and they are a key part of the Training Support Plan for the M2A3. Without these devices, additional vehicles would enhances crew efficiency. As a result, the maintenance concept is radically different from the M2A2ODS. The vehicle fire control system and inherent crew duties are Justification: The M2A3 is a significant departure from the earlier versions of the Bradley. The digital architecture facilitates embedded test and diagnostics and be required in TRADOC and additional OPTEMPO funding would be required for units.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	dget Activity/	Serial No: & TRKD CMBT	_	P-1 Line Item BRADI F	P-1 Line Item Nomenclature: BRADLEY FVS TRAINING DEVICES	3 DEVICES	<u> </u>	Weapon System I ype:		Date: Febru	February 2000
WICV Cost Analysis		VEHS / 1 / Tracked Combat Vehicles	acked Comt	at Vehicles			(G20900)						
	₽		FY 98			FY 99			FY 00			FY 01	
Cost Elements	응	TotalCost	Oth	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Q.	UnitCost
	П	\$000	Each	000\$	000\$	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Production				•									
1. Bradley Advanced Training System (BATS)					12079	13	929	18097	4	1293	0006	∞	1125
2. Bradley Desktop Trainer (BDT)					78	®	10	460	46	10		•	
3. Maintenance Trainers						-		4781	7	2391	3098	2	1549
TOTAL					12157			23338			12098		

L		11.						Date:		
	Exnibit P-5a, Budget Procurement History and Planning	nistory a	na Pianning					E	February 2000	8
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:	m Type:		P-1 Line Item Nomenclature: BRADLEY F	Nomenclature: BRADLEY F	omendature: BRADLEY FVS TRAINING DEVICES (G20900)	ICES (G2((006)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First) L	Unit Cost	Specs		RFP Issue
Fiscal Years		Method and Type			Delivery	Each			Revsn Avail	Date
1. Bradley Advanced Training System (BATS)									T	Ī
	United Defense (LP)	SS FFP	TACOM	Jul-99	May-00	13	929	¥	₹	₹
FY 00	United Defense (LP)	댎	TACOM	Jun-00	Apr-01	14	1293	¥	¥	ž
	United Defense (LP)	FFP	TACOM	Dec-00	Nov-01	80	1125	₹	₹	₹
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2. Diadrey Deship Hairer (DD1)	United Defense (I D)	91	MOOM	Fob. 00	May	a	Ç			ž
FY 00	United Defense (LP)	<u> </u>	TACOM	00-un-	Aug-00	45	2 0	ζ <u>δ</u>	<u> </u>	۲ <u>۲</u>
FY 01						2	VAR		 ≨	ź
3. Maintenance Trainers										
FY 99										
FY 00	TBD	鱼	STRICOM-Orlando		May-01	2	2391	¥	¥	₹
FY 01	TBD	1BD	STRICOM-Orlando	Mar-01	May-02	2	1549	₹	¥	₹
REMARKS:	=									

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-	1 FY 99	6	۷	13	13			П	H	Н			Ц						\sqcap		\dashv		+	7	1	+	\dashv	\dashv	4	
	1 FY 00	0	٧	14	14						H	Н	Ц									ᅥ		┪	-	\dashv	\dashv	\dashv	4	
	1 FY 01	-	٧	8	0	8		2	2	2	2	Н			Ц				T		┪	┪	\dashv	7	7	+	\dashv	\dashv	4	٦
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2. Bradley Desktop Trainer (BDT)										Н											٦	\neg	┪	┪	ᅥ	1	-		4	Ī
	2 FY 99	6	٧	8	8								Н									\dashv	_	\dashv	\neg	7	\dashv	\dashv	\dashv	٦
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	2 FY 01	1	A		0						_	Н	\dashv	_								ᅥ	٦	\dashv	7	_	+			
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3. Maintenance Trainers									П	H	Н		Н												7			+	4	
	FY 99	6	٧		0								_		_										\dashv	7	_	┪	\dashv	
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R NAME / LOCATION	MIN.		1-8-5	-	MAX.	ċ			INITIA			\dashv	ا≱	ار	_	₹				T	Ì		T							
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		Exhibit P-40, Budget		em Justific	Item Justification Sheet			Date:		February 2000		
Appropriation / Budget Activity/Serlal No:	al No:					P-1 Item Nomenclature:	те:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/Tn	acked Combat Vehic	les				HAB TR.	HAB TRAINING DEVICES (G84600)	184600)		
Program Elements for Code B Items:	15:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Oty												
Gross Cost	0.0	0.0	0.0	0.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	15.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	15.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.4	14.8	0.0	0:0	0.0	0.0	0.0	0.0	15.2
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Wolverine (Heavy Assault Bridge) Training Aids, Devices, Simulators, and Simulations (TADSS) enables the total training capability that results in combat ready Engineer and Ordnance soldiers supporting the mounted maneuver force. Wolverine TADSS provides complete training capability for operators and maintainers employing or supporting the Wolverine system. Envisioned is support to the institutional, unit, and collective level. Wolverine TADSS program provides the development of a training strategy and supporting tools to train operators, leaders, and maintainers. The program fields TADSS at both the institution and Combat Training Center.

JUSTIFICATION: Wolverine TADSS optimizes unit, institutional and CTC training effectiveness, minimizing the Operation and Support (O&S) costs associated with onvehicle training, as well as the environmental impact the result of actual vehicle operations.

The Wolverine program has been terminated. The decision to terminate the program was based on an assessment of affordability and acceptance of operational risk against higher Army Transformation priorities.

Exhibit P-5, Weapon WTCV Cost Analysis	₹	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CN	udget Activiti NT OF WPN:	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT		P-1 Line Item HAB TR	P-1 Line Item Nomenclature: HAB TRAINING DEVICES (G84600)	.S (G84600)		Weapon System Type:	•	Date: Febr	February 2000
		VEHS / 1 /	FY 98	apar venides		FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	\vdash	UnitCost	TotalCost	Q.	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Project Management					385			342					
2. Program Closeout TBD								14502				·	
TOTAL Note: FY00 program is being reassessed in light of the Army's transformation.			,		382			14844					
	1		_]				

								Date:				
		Exhibit P-4	Exhibit P-40, Budget It	tem Justification Sheet	tion Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomendature:	ire:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicl	SMBT VEHS / 1 / Tra	acked Combat Vehicl	se				BRADLEY FVS T	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	(MOD) (GZ2500)		
Program Elements for Code B Items:	TIS:			Code:	Other Related Program Elements:	am Elements:						
				٧		020373	0203735A D371 Combat Vehicle Improvement Program	hide Improvement Pi	rogram			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	10.4	0.8	0.0	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.4	0.8	0.0	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0
Initial Spares												
Total Proc Cost	10.4	0.8	0.0	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Upgrades to the BFVS Training Devices are required every time the vehicle software changes. Current vehicle plans call for an annual software update. These changes will effect the functionality of the Bradley Advanced Training System (BATS), Bradley Desktop Trainer (BDT), Precision Gunnery System (PGS) and the M2A3 Maintenance Trainers.

- 1. The introduction of the A3 requires a modification kit for PGS to interface to the digital architecture. A total of 256 mod kits are required for the Active Army.
- 2. The Through Sight Video system also requires a mod kit to interface to the digital architecture on the M2A3. This mod kit is a redesigned cable harness that will be used on the existing video recording device. A total of 80 kits are required for the Active Army.
- 3. The UCOFT modifications are designed to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It will also include installation of the Applique computer system in order to completely match the vehicle. It is following the same program for Abrams UCOFTs. A total of 125 UCOFTS will be modified in both Active and Reserve Components. Part of the total requirement is funded by STRICOM through Operations and Support Cost savings. This will insure the UCOFT will remain a viable Training Device as long as the M2A2ODS is in the inventory.
 - 4. Procurement of the Superelevation Switchbox will continue. This component enables the army standard MILES system to interface with the M2A2ODS. Total BOIP is approximately 900 kits for those units equipped with the M2A2ODS.

JUSTIFICATION:

This program meets the requirements as stated in the Bradley Operational Requirements Document. A degradation of training will take place if these modifications are delayed or cancelled. Without satisfactory Training Devices, additional vehicles and increased OPTEMPO funding would be required.

	Exhibit P-40M Budge	M Budget Ite	t Item Justification Sheet	tion Sheet			Date		February 2000		
Appropriation / Budget Activity/Serial No.					P-1 Item Nomenclature						
PROCUREME	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	cked Combat Vehicles					BRADLEY FVS	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	(MOD) (GZ2500)		
Program Elements for Code B Items	ems		Фро	Other Related Program Elements	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Software Upgrades											
1-96-05-4513	Operational	11.2	0.1	0.0	2.4	1.3	1.3	0.0	0.0	0.0	16.3
Precision Gunnery	Precision Gunnery Ststem (PGS) Mods										
1-99-05-4565	Operational	0.0	1.4	0.5	6.1	0.0	0.0	0.0	0.0	0.0	8.0
Unit Conduct Of Fir	Unit Conduct Of Fire Trainer (UCOFT) Mods										
1-99-05-4566	Operational	0.0	0.3	0.0	5.5	0.0	1.2	0.0	0.0	0.0	7.0
Through Sight Vide	Through Sight Video System (TSV) Mods										
1-99-05-4567	Operational	0.0	0.1	0.4	0.0	0.3	9.0	0.0	0.0	0.0	4.
Maintenance Trainer Mods	er Mods										
1-99-05-4568	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MILES Mods											l
1-99-05-4569	Operational	0.0	0.7	3.4	0.0	0:0	1.3	0.0	0:0	0.0	5.4
Totals		11.2	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0

NI	INDIVIDUAL MODIFICATION	ATION			Date	February 2000	
MODIFICATION TITLE: Software Upgrades 1-96-05-4513	3						
MODELS OF SYSTEMS AFFECTED: BFV COFTS, Precision Gunn	ery System, BATS, B	radley Desktop	Trainer, Maint	Precision Gunnery System, BATS, Bradley Desktop Trainer, Maintenance Training Systems.	ems.		
DESCRIPTION / JUSTIFICATION: BESCRIPTION:							
dates will be required of trair	As a system is	upgraded/i	modified, so	ing devices. As a system is upgraded/modified, software on the training device must be modified to Planned increases include VIC.3 intercom adapter for existing Through Sight Video (TSV). Precision	ining device mus Iah Siaht Video (t be modified TSV). Precision	<u>ء</u> د
	nost, ODS Maint	enance Tra	iner,and Re	T, COFT Rehost, ODS Maintenance Trainer, and Reserve Component Equipment ODS Mods.	nt Equipment OE	S Mods.	į
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES	;;						
Preliminary Design Review	AA						
	Ϋ́						
Contractor Test & Evaluation Initial Operational Test and Evaluation	A A						
	⋖						
TDP Available	AZ						
Installation Schedule:							
FY 1999	FY 2000						
Inputs 1 2 3 4 Outputs	8	-	2	7	4	7	4
FY 2004 FY	FY 2005	FY 2006	90	FY 2007		То	Totals
1 2 3 4 1	2 3 4	1 2	3	1 2 3	4 Complete	e)	
Inputs Outputs						:	
METHOD OF IMPLEMENTATION: Contractor ADM	ADMINISTRATIVE LEADTIME:	TIME:	12 Months	PRODUCTION LEADTIME:	I LEADTIME: 12	Months	
Contract Dates: FY 1999 4Q99 Delivery Date: FY 1999 2Q00	FY 2000 FY 2000	1000 1001		FY 2001 FY 2001	1001 1002		

			INDIVIDUA	INDIVIDUAL MODIFICATION	z			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	So	Software Upgra	rades 1-96-05-4513	513						
FINANCIAL PLAN: (\$ in Millions)	FY 1998	_								
	P P	198	7200	8	FY 2002	FY 2003	FY 2004	FY 2005	1C	TOTAL
RDT&E PROCUREMENT Software Mods -A2 Software Mods -A3	4 11.2	1 .0	r P	2.4	1.3					
Installation of Hardware FY 1998 & Prior Eqpt – Kits FY 2000 Eqpt – Kits FY 2001 Eqpt – Kits FY 2002 Eqpt – Kits FY 2003 Eqpt – Kits FY 2005 Eqpt – Kits FY 2005 Eqpt – Kits FY 2005 Eqpt – Kits										·
Total Installment Total Progression	11.2	0.1		2.4	1.3	1.3				16.3
I Didi Figuri enrein Cost										

	INDIVIDUAL MODIFICATION	CATION				Date		February 2000	
MODIFICATION TITLE: Precision Gunnery Ststem (PGS) Mods 1-99-05-4565	m (PGS) Mods 1-99-05	4565		,					
AFFECTED: BFV Precision	Gunnery System								
DESCRIPTION / JUSTIFICATION:									
The introduction of the A3 requires a modification kit for PGS to interface to the digital architecture. A total of 256 mod kits are required for the Active Army.	cation kit for PGS to into	erface to the	digital a	rchitectu	re. A total	of 256 mo	d kits are	required	for
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES	LESTONES:								
Preliminary Design Review	ΑN								
Critical Design Review	N A								
Contractor Test & Evaluation	AN S								
Initial Operation at 1est and Evaluation IPR Production Decision	Y VN								
TDP Available	NA								
	0000 /1		7000	-	200C A	COC		2000	
Totals 1 2 3	4 1 2 3	4	2	4	1 2	3	1		3 4
Inputs Outputs		7 7	7	7 25 7 25	25 25 25 25	25 25			
FY 2004	FY 2005	FY 2006	90		FY 2007		2		Totals
1 2 3 4	1 2 3 4	1 2	3	4 1	2 3	4	Complete		
Inputs Outputs									128 128
METHOD OF IMPLEMENTATION: Contractor	ADMINISTRATIVE LEADTIME:	TIME:	11 Months		PRODUCTION LEADTIME:	LEADTIME:	12	Months	
Contract Dates: FY 1999 Au. Delivery Date: FY 1999 Au.	Aug 99 FY 2000 Aug 00 FY 2000	Dec 00 Jul 01		<u>i. i.</u>	FY 2001 FY 2001	₹ ₹			
2001									

MODIFICATION TITLE (Cont):	Pre	ecision Gunne	Precision Gunnery Ststem (PGS) Mods 1-99-05-4565	3S) Mods 1-9	19-05-4565					
FINANCIAL PLAN: (\$ in Millions)										
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	70	TOTAL
	Qty \$	Qty \$	Oty \$	Qty \$	Cty \$	Oty \$	\$ AO	Qty \$	Qty \$	Oty \$
RDT&E PROCUREMENT										
Kit Quantity										
Installation Kits		28 1.4	0	228 6.1						256 7.5
Installation Kits, Nonrecurring										
Equipment										
Equipment, Nonrecuring										
Data Data			-							
Training Equipment										
I raining Equipment										
Support Equipment										-
Inform Contractor Cinnort			20.0							0.5
					-					
NOTE: Application costs are included in procurement unit cost	n costs are inclu	ded in procureme	ent unit cost				N. E.			
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits						,				
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits					-					
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment										
Total Procurement Cost		1.4	0.5	6.1						8.0

					NDIN	INDIVIDUAL MODIFICATION	ODIFIC/	TION						Ö	Date		February 2000	000	T
MODIFICATION TITLE:	UniT Conduct Of Fire Trainer (UCOFT) Mods 1-99-05-4566	nduct O	Fire T	rainer	(UCO	FT) Mo	ds 1-9	9-05-4	999										
MODELS OF SYSTEMS AFFECTED: UCOFT, COFT	FFECTED:	UCOFT,	COFT																
DESCRIPTION / JUSTIFICATION:	ATION:																		
The UCOFT modifications are designed to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It will also include installation of the Applique computer system in order to completely match the vehicle. It is following the same program for	sations a	re desig of the A	ned to	replac	e out-	of-date ystem i	Comp n orde	uter an	id Imag nplete	je Ger ly mate	nerator	r hardv vehicl	vare w e. It is	to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It use computer system in order to completely match the vehicle. It is following the same program for	of-the	art ed	luipme orograr	int. It m for	
Abrams UCOFTs. A total of 125 UCOFTS will be modified in both Active and Reserve Components. Part of the total requirement is funded by expected the UCOFT will remain a viable Training Device as long as the	A total of	f 125 U(SOFTS	will be	modi	fied in	ooth A	ctive al	nd Res	Serve (Sompo	nents.	Part a	of the to le Train	otal required Dev	uireme	ent is fu s long a	unded as the	70 ^^
M2A2ODS is in the inventory.	inventor	y.	5) D				;)									
			!																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	/ MAJOR	DEVELOF	MENT N	ILESTO	NES:														
Preliminary Design Review	Review				_	¥													
Critical Design Review	ew					Ϋ́													
Contractor Test & Evaluation	valuatior					¥ ÷													
Initial Operational Test and Evaluation IPR Production Decision	est and t ision	-valuati	<u>.</u>		- 2	₹ ¥													
TDP Available					•	¥													
Installation Schedule:																			
PrYr	<u>ا</u>	FY 1999	66			FY 2000			Œ	FY 2001			٤	FY 2002	1	F	FY 2003		
	Totals	2	ဗ	4	-	2	3	4	1	2	3	4	2	3	4	-	7	8	4
Inputs						,		10							o o	6 6	ວວ		
				1															
L	F	FY 2004			FY 2005	55		iL.	FY 2006		Ц	ᇈ	FY 2007			오		입	Totals
l	1	2 3	4	-	2	3	4	-	2	3	4	-	2 3	4	Com	Complete			
Inputs			5																39
METHOD OF IMPLEMENTATION:	TATION:	Contractor	l b	₹ 	SINIMO	ADMINISTRATIVE LEADTIME:	LEADT	ME:	6	Months	SI	PROD	UCTION	PRODUCTION LEADTIME:		12 M	Months		
Contract Dates:		FY 1999		Jul 99		Ā	FY 2000	Ϋ́				FY 2001	5	Jul 01					
Delivery Date:		FY 1999		Jul 00		F	FY 2000	¥				FY 2001	5	Jul 02					

			·			95				
MODIFICATION TITLE (Cont):	ָה י	II Conduct C	UniT Conduct Of Fire Trainer (UCOFT) Mods 1-99-05-4566	(UCOFI) Mo	ds 1-99-05-4	990				
FINANCIAL PLAN: (\$ in Millions)		F								
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Oty \$	Qty \$	Oty \$	Oty \$	Oty \$	Qty \$	Cty \$	Qty \$	Cty \$	Oty \$
RDT&E										
PROCUREMENT										
Kit Quantity										
UCOFT		10 0.3				5 1.2				7.5
COFT Rehost				10 2.5						10 2.5
RSRV Comp. Equipt ODS Mods	w.									
Equipment, Nonrecurring										
Engineering Change Orders									·	
Data										
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
NOTE: Application	ı on costs are inclu	NOTE: Application costs are included in procurement unit cost	ent unit cost						-	
Installation of Hardware										
FY 1998 & Prior Foot Kits										
FY 1999 Eapt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits						*******				
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment										
Total Procurement Cost		0.3		5.5		1.2				7.0
The state of the s										

INDIVIDUAL MODIFICATION

en c	
mod kit is a red	lesigned
ш. 	FY 2003
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2 2	12 12 12 12
70	Totals
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3. This 2002 3 3 3 3 Mar 01	s mod kit is a reg

			NDIVIDUA	INDIVIDUAL MODIFICATION	NC			Date	Februa	February 2000	
MODIFICATION TITLE (Cont):	1	Through Sight V	Video System (TSV) Mods 1-99-05-4567	(TSV) Mods	1-99-05-4567						
FINANCIAL PLAN: (\$ in Millions)	EV 1009	_									
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL	
	Oty \$	Qty \$	Qty \$	Qty \$	Ωtγ \$	Qty \$	Oty \$	Cty \$	Oty \$	\$ AtO	46
RDT&E				-							
PROCUREMENT											
Kit Quantity			15 0.4	0	25 0.3	20	9.0			110	. .
Installation Kits	-										
Installation Kits, Nonrecurring							-				
Equipment											
Equipment, Nonrecurring											
Engineering Change Orders											
Data		0.1									0.1
Training Equipment	. =										
Support Equipment											
Other											
Interim Contractor Support											
		_				•					
NOTE: Applicatio	on costs are inclu	NOTE: Application costs are included in procurement unit cost	ant unit cost								
										_	
	-									-	
Installation of Hardware											
FY 1998 & Prior Eqpt Kits							-				
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits											
FY 2001 Eqpt Kits											
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits											
FY 2005 Eqpt kits											
TC Equip-Kits											
Total Installment											
Total Procurement Cost		0.1	0.4		0.3		9.0				1.4

			<u>IN</u>	VIDUAL	INDIVIDUAL MODIFICATION	CATION								Date		February 2000	, 2000	
MODIFICATION TITLE:																		
MODELS OF SYSTEMS AFFECTED:																		
DESCRIPTION / JUSTIFICATION:																		
																¥		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	VELOPMEN		MILESTONES:															
Preliminary Design Review				¥														
Critical Design Review				¥								•						
Contractor Test & Evaluation				¥														
Initial Operational Test and Evaluation	aluation			¥:														
IPR Production Decision TDP Available				₹₹														
Installation Schedule:																		
Pr Yr	FY 1999			FY 2000				FY 2001			ŀ	FY 2002			Ī	FY 2003		
Totals 1 Inputs Outputs	2	4	~	7	m	4	-	2	m	4	-	2	က	4		2	m	4
FY 2004	40		FY 2005	905			FY 2006	9			FY 2007	20			7			Totals
1 2	3 4	_	2	3	4	-	2	3	4	1	2	3	4	රි	Complete			
Inputs Outputs																		
OF IMPLEMENTATION:	Contractor		ADMIN	STRATI	ADMINISTRATIVE LEADTIME:	TIME:		9	Months	4	PRODUCTION LEADTIME:	NOIT	LEADT	IME:	12	Months		
ió	FY 1999	Enter Date	ate		FY 2000		Enter Date	o (ш	FY 2001		Mar 01					
Delivery Date:	FY 1999	Enter Date	ate		FY 2000		Enter Date	a		١	F Y 2001		Mar 02					

			NDIVIDU	INDIVIDUAL MODIFICATION	NC			Date	Februa	February 2000
MODIFICATION TITLE (Cont):										
FINANCIAL PLAN: (\$ in Millions)	FY 1998									
	and Prior	FY 1999	FY 2000	FY 2001	/ 200	7 200	200	7 200	ဍ	OTAL
	Qty \$	Sty &	Oty \$	\$ AO	Oty \$	\$ AD	Offy \$	Qty \$	Oty \$	Oty \$
RDT&E										
PROCUREMENI										
Nt Quantity Installation Kits										
Installation Kits, Nonrecurring										
Equipment										
Equipment, Nonrecurring										
Engineering Change Orders										
Data										
Training Equipment										
Support Equipment			-11							
Other										
Interim Contractor Support										
MOTE: Analization and included in programment unit over	 	 dod in procurer	 nent unit cost							
NOIE: Application	JII costs are incur 	lded iii produsti 								
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits							·			
TC Equip-Kits										
Total Installment										
Total Procurement Cost										

				Ì		<u>IQN</u>	VIDUAL	INDIVIDUAL MODIFICATION	CATIO							Date		Februa	February 2000	
MODIFICATION TITLE:	MILE	S Mo	MILES Mods 1-99-0	-50-6	5-4569															
MODELS OF SYSTEMS AFFECTED: BFVS MILES	AFFEC	TED:	3FVS M	ILES							<u></u>									
DESCRIPTION / JUSTIFICATION:	CATIO	ž		,																
Procurement of the Superelevation Switchbox will continue. This component enables the army standard MILES system to interface with the M2A2ODS. Total BOIP is approximately 900 kits for those units equipped with the M2A2ODS.	e Supe BOIP	erelev is app	ation	Switch lately	w xodr 900 kit	ill con s for t	tinue. hose u	This c	odwoo	nent e	nable the N	s the (12A20	army s DS.	tandare	A MILE	S syste	n to int	erface	with th	e E
The BFVS SAWE/MILES hardware at the National Training Center must be modified to operate on the M2A3. Initial funding in FY00 provides minimum quantity to support the division Capstone Exercise - DCS by Jan 01. Funding in FY03 will procure an additional 65 mod kits.	/MILES n quant	S harc tity to	dware suppc	at the ort the	Nation	nal Tra on Cap	aining ostone	Center	r must ise - C	be m CS b	odifiec y Jan	1 to op 01. Fu	erate	on the in FYC	M2A3. 13 will p	the National Training Center must be modified to operate on the M2A3. Initial funding in FY00 the division Capstone Exercise - DCS by Jan 01. Funding in FY03 will procure an additional 60.	unding an addi	in FY0 itional (0 35 то	70
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	JS / MAJ	OR DE	VELOF	MENT	MILEST	ONES:														
Preliminary Design Review	n Revie	×					¥		*											
Critical Design Review	view						¥													
Contractor Test & Evaluation	Evalue	ation					¥													
Initial Operational Test and Evaluation	Test a	nd EV	aluati	uo			¥ ž													
TDP Available	LOISIDE						₹₹													
Installation Schedule:			1																	
	Pr Yr		FY 1999	 66			FY 2000	000			FY 2001	01			FY 2002			FY	FY 2003	
	Totals	F	7	8	4	-	2	3	4		2	3	4	-	2	9	4	2	3	4
Inputs			•					20 20	20	20 20	2 2	112	12	13	1 13					
								3	3	3	3		!		2					
		FY 2004	20			FY 2005	905			FY 2006	900			FY 2007	7(L	P			Totals
	1	2	3	4	1	2	3	4	-	2	3	4	1	2	3	4	Complete			
Inputs		9	35	35	18															768
Outputs		30	35	35	18										_	-				768
METHOD OF IMPLEMENTATION:	NTATIO		Contractor			NIMO	STRATI	ADMINISTRATIVE LEADTIME:	DTIME:		4	Months	<u>.</u>	RODUC	TION LE	PRODUCTION LEADTIME:	ဖ	Months		
Contract Dates:		u .	FY 1999		Nov 99			FY 2000		Nov 00			ш '	FY 2001	Nov 01	٤ ر				
Delivery Date:			FY 1999		May 00			FY 2000		May 01				FY 2001	Ma	May 02				

			$\int_{-\infty}^{\infty}$	NDIVIDUA	INDIVIDUAL MODIFICATION	NOIT					Date	Februa	February 2000	
MODIFICATION TITLE (Cont):	M	MILES Mods 1	1-99-05-4569	-4569										
FINANCIAL PLAN: (\$ in Millions)		-												
	FY 1998 and Prior	FY 1999	<u> </u>	FY 2000	FY 2001	FY 2002	FY 2003	003	FY 2004	FY ?	FY 2005	70	TOTAL	
	Oty \$	Oty \$	Qty	\$	Qty \$	Qty \$	Qty	\$	Qty \$	ģ	s	Qty \$	ĝ	S
RDT&E														
PROCUREMENT														
MILES Superelevation box			0.2 300	0 0.3									420	0.5
MILES VIS Adapter		80 0.											230	0.2
MILES TOW Bracket		0.	0.4		-									0.4
SAWE/MILES			Ŋ	53 3.0			65	1.3					118	4.3
Equipment					_									
Equipment, Nonrecurring					_	****								
Engineering Change Orders					_									
Data					_									
Training Equipment					_									
Support Equipment					_									
Other														
Interim Contractor Support														
NOTE: Application costs are included in procurement unit cost	ו יח costs are inclu	i ided in procurei	nent un	t cost										
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Installation of Hardware														
FY 1998 & Prior Eqpt Kits														
FY 1999 Eqpt Kits														
FY 2000 Eqpt Kits														
FY 2001 Eqpt Kits														
FY 2002 Eqpt kits											•			
FY 2003 Eqpt kits														
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FY 2005 Eqpt kits														
TC Equip-Kits														
Total Installment										_				
Total Procurement Cost		0	0.7	3.4				1.3						5.4

chibit P-40	ation Shee
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	Budget II

								Date:				
		Exhibit P-40, Budget		tem Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS/1/TR	acked Combat Vehic	les				ABRAMS TA	ABRAMS TANK TRAINING DEVICES (GB1300)	ES (GB1300)		
Program Elements for Code B Items:	:3:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	45.8	12.5	13.1	13.3	8.1	10.5	11.7	12.0	12.9	5.8		145.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	45.8	12.5	13.1	13.3	8.1	10.5	11.7	12.0	12.9	5.8		145.7
Initial Spares												
Total Proc Cost	45.8	12.5	13.1	13.3	8.1	10.5	11.7	12.0	12.9	5.8		145.7
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The family of M1A2 Training Aids, Devices, Simulators and Simulations (TADSS) will replicate actual tank performance without incurring the much higher costs of operating the tank itself.

- Advance Gunnery Training System (AGTS) These are precision gunnery trainers which provide realistic commander and gunner training under varying scenarios.
- Trainer (HOT); Hull Electrical Diagnostic/Troubleshooting (D/T) Trainer; Turret/Fire Control D/T Trainer; and Direct Support Electrical System Test Set Line Replaceable Unit (DSESTS LRU) simulators. The students (approximately 600/yr) will learn about the sub-systems and procedures for troubleshooting and fault isolating the tank - Maintenance Trainers - These systems provide training in essential unit and direct support/general support tasks. There are four different trainers: M1A2 Hands-onsystem. The intended sites are Ft. Knox and Aberdeen Proving Grounds.
- SEP Integration This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.

JUSTIFICATION: Fielding of the M1A2 Main Battle Tank requires concurrent fielding of a training support package. It is not cost effective to provide effective, realistic training on the M1A2 tanks through the operational use of the vehicle. Realistic training on a family of training devices simply makes better economic sense.

	Ì	Appropriation/ Budget Activity/Serial No:	dget Activity	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:	01070		Weapon System Type:		Date:	Eebnises 2000
WTCV Cost Analysis		VEHS / 1 / Tracked Combat Vehicles	racked Com	& IRRU CMB I bat Vehicles		MENGH	(GB1300)	g DEVICES					
	₽		FY 98			FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	δģ	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Advance Gunnery Training System (AGTS) 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢				8800 324 300			1811			8724 500		
SUBTOTAL					9424	80	1178	2311	2	1156	9224	6	1025
M1A2 Maintenance Trainers 1) Production 2) Government Support 3) First Article Test	∢							1950					
4) Non Kecurring Cost SUBTOTAL					150			2150	2	1075			
M1A2 Non System Integration Kits 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢				960 100 2			502					
SUBTOTAL					1062			502	VAR	VAR			
M1A2 Software Upgrades 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢				59			100			100		·
SUBTOTAL					662	VAR	VAR	587	VAR	VAR	880	VAR	VAR
SEP Integration 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost	∢				1850 50 100			2400			350		
SUBTOTAL					2000	VAR	VAR	2500	VAR	VAR	400	VAR	VAR
TOTAL					13298			8050			10504		

Exhibit P-5, Weapon System Cost Analysis

-								Date:	Š	
Exhibit h	Exhibit P-5a, Budget Procurement History and Planning	TISTORY a	nd Planning					ľ	February 2000	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	ภท Type:		2-1 Line Item	P-1 Line Item Nomendature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles						ABRAMS TA	ABRAMS TANK TRAINING DEVICES (GB1300)	VICES (GB	1300)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	αry	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Advance Gunnery Training System (AGTS)										-
FY99	Lockheed Martin, Orlando, FL	C-FFP	STRICOM	Nov-98	Oct-00	80	1178	Yes	2	ΑX
FY00	Lockheed Martin, Orlando, FL	C-FFP	STRICOM	Nov-99	Oct-01	7	1156		₽ :	¥ ۶
FY01	Lockheed Martin, Orlando, FL	C-FFP	STRICOM	Mar-01	Mar-03	ົດ	1025	Xes X	 2	¥ X
M1A2 Maintenance Trainers FY00	Research Triangle Institute (RTI), Charlotte. NC	C-FFP	STRICOM	Dec-99	Oct-00	7	1075	Yes	° Ž	A/A
M1A2 Non System Integration Kits 1/ FY99	Various	C-FFP	STRICOM	Aug-99	Nov-99	VAR	VAR	Š	2	Ą X
FY00	Various	C-FFP	STRICOM	Mar-00	Jun-01	VAR	VAR		2	¥ X
M1A2 Software Upgrades 2/										
FY99	Various	C-FFP	STRICOM	Mar-99	Mar-00	VAR	VAR		2 2	ĕ Ş
FY00 FY01	Various Various	7. 9. FF FF	STRICOM	Mar-01	Mar-01	X X X	VAR	2 2	2 2	Ç ∢ Z Z
SEP Integration										
FY99	Lockheed Martin, Orlando, FL	C-FFP	STRICOM	Feb-99	Mar-00	VAR	VAR		2	ĕ Z
FY00	Lockheed Martin, Orlando, FL	C-FFP	STRICOM	Feb-00 Feb-01	Mar-01	VAR	VAR	2 2	2 2	≰ ≰ Ž Ž
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1/ M1A2 Non-System Integration Kits provide system unique kits allowing the installation of Non-System Training Devices, such as Thru Sight Video (TSV), Tank Weapon Gun Simulation System (TWGSS), Precision Range Integrated Maneuver Exercise (PRIME), and Multiple Integrated Laser Engagement System (MILES) onto the M1A2 tank.

^{2/} M1A2 trainer software upgrades update M1A2 training devices to keep pace with changes in the M1A2 tank.

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FY 00 / 01 BUDGET PRODUCTION SCHEDULE	2	TION SC	HEDUL	LI)		-			AB	ABRAMS TANK TRAINING DEVICES (GB1300)	TANK.	TRAIN	INGD	EVICE	S (GB	1300)									ebrua	February 2000			
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	re:					
PROCUREMENT	FOF WPNS & TRKD	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	scked Combat Vehic	se				MEDIUM ARM	MEDIUM ARMORED VEHICLE FAMILY (G85100)	AILY (G85100)		
Program Elements for Code B Items:	.S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	TBD	537.1	1007.2	898.1	853.4	1036.6	0.0	4332.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	TBD	537.1	1007.2	898.1	853.4	1036.6	0.0	4332.4
Initial Spares												
Total Proc Cost	0:0	0.0	0.0	0.0	TBD	537.1	1007.2	898.1	853.4	1036.6	0.0	4332.4
Flyaway U/C												
Wpn Sys Proc U/C												

conducts effective combat operations immediately on arrival to prevent, contain, stabilize, or resolve a conflict through shaping and decisive operations. Variants within DESCRIPTION: The Brigade Combat Team (BCT), equipped with Medium Armored Vehicles (MAVs), is a full spectrum combat force. It has utility in all operational environments. It will be employed as part of a division. It can be used across the spectrum of military operations. The Brigade Combat Team deploys rapidly and the Family of Medium Armored Vehicle (MAVs) are:

Infantry Carrier Vehicle: The Infantry Carrier Vehicle (ICV) provides protected transport and supporting fires for the infantry squad during dismounted assault. The ICV carries an infantry squad with individual equipment.

Mobile Gun System: The Mobile Gun System (MGS) supports dismounted infantry and engages the enemy in close combat in order to clear opposition and permit rapid movement allowing the force to maintain the initiative, occupy and/or secure key objectives, and defeat strong points.

Antitank Guided Missile Vehicle: The Antitank Guided Missile Vehicle (ATGM) is the brigade's primary tank killing system. The ATGM reinforces the brigade's Reconnaissance Vehicle: The Reconnaissance Vehicle provides force situational awareness, gathering and transmitting real time intelligence while moving throughout the battlefield in close, complex and urban terrain.

Command and Control/TOC Vehicle: The Command and Control/TOC vehicle provides the brigade with the means to receive information and data, analyze, prepare infantry battalions, reinforces the brigade reconnaissance squadron, and provides long-range direct fires.

and transmit data, and control the forces/functions carrying out combat missions.

			Date
Exhibit P-40C Budget Ite	em Justific	Item Justification Sheet	February 2000
Appropriation / Budget Activity/Serial No.		P-1 item Nomenclature	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	40		MEDIUM ARMORED VEHICLE FAMILY (G85100)
Program Elements for Code B Items	Code	Other Related Program Elements	

Self-Propelled Howitzer: The Self-Propelled Howitzer provides indirect fire support capabilities beyond what can be ranged by the Mortar Carrier. It provides pro-active Mortar Carrier: The Mortar Carrier will support infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm and 81mm mortar carrier variants provide complimentary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault. counterfire for the brigade.

Engineer Vehicle: The Engineer Vehicle (EV) provides manuever/mobility support capabilities which include obstacle clearing, in-stride breaching of surface mines, proofing of subsurface mines, and smoke generation for local protection.

NBC Reconnaissance Vehicle: The Nuclear, Biological, Chemical (NBC) Reconnaissance Vehicle provides on the move and remote near-real-time nuclear, biological Striker/Fire Support Team Vehicle: The Striker/Fire Support Team Vehicle provides automated enhanced surveillance, target acquisition, target identification, target Medical Evacuation/Medical Treatment Vehicle: The Medical Evaluation/Medical Treatment Vehicle is the Battalion Aid Station for brigade units, providing critical tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter. and chemical detection and surveillance to supply battlefield visualization of NBC hazards.

treatment for serious injury and advanced trauma cases.

response by a lethal, versatile, tactically agile joint force capable of operational maneuver once in the Area of Operations is essential to fulfilling the Warfighting needs of JUSTIFICATION: FY01 funds support the procurement of one Brigade Combat Team (BCT) equipped with Medium Armored Vehicles. An immediate need exists for a configuration. A dynamic asymmetric threat and operational environment demands full spectrum, strategically responsive, agile and dominant land forces. Immediate the National Command Authority. The MAV-equipped BCT is this force. The use of a common platform/common chassis design reduces requirements for repair parts Medium Armored Vehicle (MAV) equipped C-130 transportable Brigade Combat Team (BCT), capable of deployment to anywhere on the globe in a combat ready and logistics support in the area of operations.

Exhibit P-5, Weapon	Α	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT	dget Activity/ T OF WPNS	Serial No: & TRKD CMBT		P-1 Line Iter MEDIUM	P-1 Line Item Nomenclature: MEDIUM ARMORED VEHICLE FAMILY	ICLE FAMILY	<u> </u>	Weapon System Type:		Date: Febru	February 2000
cost ministra	_	VEHS / 1 / T	racked Com	oat Vehicles		20 20	(G85100)		- P			EV 04	
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Exhibit	Exhibit P-5a, Budget Procurement History and Planning	t History aı	nd Planning					Cade:	February 2000	0
Appropriation / Burdnet Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature:				
PROCUREMENT OF WPNS REMOVED CMBT VEHS / 1 / Tracked Company Vehicles						MEDIUM ARN	MEDIUM ARMORED VEHICLE FAMILY (G85100)	FAMILY (G		
эments:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	ary East	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
1. Medium Amored Vehicle Family Vehicles	TBS	TBD	TACOM	00-Inc	DE L	TBD	TBD			Mar 00
REMARKS:										

								Date:				
		Exhibit P-40, Budget	0, Budget It	em Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	SMBT VEHS / 1 / Tre	acked Combat Vehich	se				COMMAND	COMMAND & CONTROL VEHICLE (G84200)	LE (G84200)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
				∢			PE 0604640A Adv	PE 0604640A Advanced Command and Control Vehicle	d Control Vehicle			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty		5	5	10								20
Gross Cost	0.0	48.8	29.6	47.7	61.4							187.5
Less PY Adv Proc												
Plus CY Adv Proc												
	0:0	48.8	29.6	47.7	61.4							187.5
Initial Spares			6:0	2.5	2.6							5.9
Total Proc Cost	0.0	48.8	30.5	50.2	64.0	0.0	0.0	0.0	0.0	0.0	0.0	193.4
Flyaway U/C												
Wpn Sys Proc U/C		9.8	6.1	5.0								9.7

components. C2V was developed in response to lessons learned during Operation Desert Storm. It supports the Army heavy force Digitization Effort, incorporating communications and electronic systems compatible with Army Tactical Command and Control systems (ATCCS). It provides a mobile, responsive, and survivable DESCRIPTION: The Command and Control Vehicle (C2V) provides a fully tracked, armored vehicle based on Bradley A2 and MLRS designs and command and control cabability to the heavy force, and the platform to support command and control on the move.

The program is terminated to support the Army's transformation. The FY00 program is being reassessed in light of the transformation initiative.

JUSTIFICATION: This program was initiated as a result of deficiencies in existing command and control vehicles identified during Operation Desert Storm.

Cost Elements	Exhibit P-5, Weapon WTCV Cost Analysis	<u> </u>	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vahicles	dget Activity, OF WPNS,	/Serial No: & TRKD CMBT	<u>-</u>	P-1 Line Item Nomenclature: COMMAND & CONTROL VE	2-1 Line Item Nomenclature: COMMAND & CONTROL VEHICLE (G84200)	CLE (G84200)		Weapon System Lype:		Date: Februi	February 2000
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Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					Date:	February 2000	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked						COMMAND	COMMAND & CONTROL VEHICLE (G84200)	ICLE (G842	(00;	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αιγ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
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2 Transmission										
FY 99	GDLS, Muskegon, MI GDLS, Muskegon, MI	SS/FFP SS/FFP	TACOM	Mar-99 TBD *	Apr-00 TBD *	12	149			
3										
4 Mission Module Components										
FY 99	L3 Comm. Sys., Camden, NJ	FP-Op	СЕСОМ	Dec -98	Jun-00	18	292			
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REMARKS: L3Comm Systems, Camden, NJ - L3 Communications Systems, Camden, NJ TRD * In light of shutdown and termination of this program.	ommunications Systems, Camden, NJ ion of this program.									

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	FY 100 / 101 BUDGET PRODUCTION SCHEDULE	DOC	TION S	CHED	ULE			_			OOM	COMMAND & CONTROL VEHICLE (G84200)	& CON	TROL	/EHIC	LE (G8	4200)									February 2000	2000		
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_	Vehicle									Н	H	Ц				-	Н					П		Н	Н	Ц			
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Σ		r		PRODUCTION RATES	N RATES	ſ		Σ	MFR	4	1	1	╄] \$	¶ N LE	ł≓	1	╀	MFR			TOTAL	t	REM	ž	ł]	
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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	acked Combat Vehick	se				CA	CARRIER, MOD (GB1930)	30)		
Program Elements for Code B Items:	:5:	i		Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	663.7	44.7	39.5	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1678.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	663.7	44.7	39.5	925.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1678.6
Initial Spares	3.5											3.5
Total Proc Cost	667.2	44.7	39.5	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1682.1
Flyaway U/C												
Who Sve Proc 11/C												

and to install operational enhancements. Operation Desert Storm (ODS) highlighted the need to improve the mobility and survivability, chemical protection, driver's night DESCRIPTION: The M113 Family of Vehicles (FOV) consists of over 17,500 vehicles, 20 different variants/platforms, in service in U.S. Army units. The M113 FOV is smoke, mortar, cargo carrier and command & control systems. The fleet is required for the next 20 plus years and must be modified to increase mobility, survivability almost one half of the tracked combat vehicle fleet in a mechanized infantry or armor heavy division. The family provides transport for troops, anti-tank, fire direction, vision, fuel system, and Command Post Auxiliary Power Units (APU) for the fleet.

JUSTIFICATION:

- 1. CREW CHEMICAL PROTECTION: Provides the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes mounting provisions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Installation will occur during vehicle conversions to the A3 configuration. Vehicle conversion will be done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.
- 2. BLOCK 1 (A3) MODIFICATION: Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine mobility to keep up with the M1 Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external armored fuel tanks and external armor coupled with a new transmission. This powertrain replaces less reliable components and results in reduced Operations and Support (O&S) costs while increasing mounting provisions increase crew survivability. Vehicle conversion to the A3 configuration will be done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.

			_	
Date February 2000	CARRIER, MOD (GB1930)		3. DRIVER'S NIGHT VIEWER. The M19 image intensifier currently used on the M113 Family of Vehicles (FOV) has limited night vision. The ANVVS-2(V)1A driver's night viewer has been adapted for use on the M113 FOV. The driver's night viewer enhances operational capability by providing capability for travelling in darkness and low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.	
			tional ca	
	P-1 Item Nomendature	am Elements	113 Family of Velenhances operatile systems.	
Item Justification Sheet		Other Related Program Elements	d on the Might viewer	
ıstificat			intly use	
Item Ju	iicles	opo	ier curre	
Exhibit P-40C Budget	riget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	llems	3. DRIVER'S NIGHT VIEWER: The M19 image intensifier currently used on the M113 Family night viewer has been adapted for use on the M113 FOV. The driver's night viewer enhances low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems. It is a condition to the M1 Abrams and Bradley Fighting Vehicle systems.	
	Appropriation / Budget Activity/Serial No. PROCUREMENT OF \	Program Elements for Code B Items	3. DRIVER'S NIGH night viewer has be low visibility condition visibility conditions.	

Appropriation / Budget Activity/Serial No. PROCUREMENT OF V Program Elements for Code B Items Description		•		Exhibit P-40M Buaget Item Justification Sheet					February 2000		
Program Elements for Code B Items Description	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	Fracked Combat Vehicles	S		P-1 Item Nomenclature		CARI	CARRIER, MOD (GB1930)	(0		
Description	ems		Code	Other Related Program Elements	m Elements						
		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Crew Chemical Protection	otection	o c	o c	4	o C	7	o	7	10	12.2	20.4
1-91-05-4311 Block 1	Oper Capability	0.8	0.8	<u>o</u> .	0.0	<u> </u>	 	2:	2	7:7	.03
1-84-05-4026	Oper Capability	362.9	53.4	59.2	43.2	45.6	44.1	46.2	46.2	547.7	1,248.5
Driver's Night Viewer	er										
1-94-05-4463	Oper Capability	3.4	0.8	2.0		1.5	1.3	1.5	4.1	16.2	29.2
Totals		367.1	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1,297.8
							,		·		

						NDIVI	JUAL N	IODIFIC	INDIVIDUAL MODIFICATION								Date		February 2000	/ 2000	
MODIFICATION TITLE:	Crew Chemical Protection 1-91-05-4311	hemic	al Pro	tection	1-91	-05-4	311														
MODELS OF SYSTEMS AFFECTED:	AFFECTE	J: M11;	M113A3, M577/	77A3, I	13, M1068A3	က္ခ															
DESCRIPTION / JUSTIFICATION:	-ICATION:																				
Provides the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes mounting provisions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks.	plete M8, ncludes n	M13 (or M14	† Nucl	ear, E s, blo	Siolog wers,	ical ar filters	d Che	emica air line	(NB)	C) Systems as	stem t	tailore ses fo	ed for i	nstalla with co	ation ir rew iss	to eac	uclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The ions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks.	3 varia d face	nt. Th mask	Ф .v.
The installed system permits vehicle operation in an NBC environment. Installation will occur during vehicle conversions to the A3	em permi	its veh	icle of	beratic	ını B	an NB	Cenv	ironm of the	ent. I	Install	lation	will oc	cour d	luring	vehicle	e conv	ersion	ration in an NBC environment. Installation will occur during vehicle conversions to the A3	A3	j	
facilities.				5	<u>.</u>	a P				ž Š	- 2				, ,		ś ś		5	3	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	JS / MAJOR	DEVE	OPIME		MILESTONES:	ES:		PLANNED	NED		AC	ACCOMPLISHED	 - 	<u>ا</u>							
Updated TDP Available:	ilable:										S	March 99	6								
Installation Schedule:																					
	 	+	۲۲ 1999 م	,	+	-	- 7 2000	٦	+	+	- 7 ZUUI		1		֡֟֝֟֝֟֝֟֝֟֝֟֝֟	2002	_	7	2002	3	
na irte	Clais	+	7	,	╀	+	1	,	1	- 199	1 8	8	99	34	6	۳ ا	۳	43	4	43	44
Outputs										}	99	99	66					35	43	44	43
	F	FY 2004				FY 2005				FY 2006	900			F	FY 2007			٦		•	Totals
	1	2	3	4	1	2	3	4	-	2	3	4	1	2	3	4		Complete			
Inputs	36				38	38	38	39	32	33	32	33						1586			2591
Outputs	44	36	37	36	37	38	38	38	39	32	33	32	33					1586			2591
METHOD OF IMPLEMENTATION:	NTATION:	Depo	Depot/Contractor	actor	AD	MINIST	RATIVE	ADMINISTRATIVE LEADTIME	TIME:		~	Months		PROD	JCTIO	PRODUCTION LEADTIME:	TIME:	0	Months		
Contract Dates:		FY 1999	666				Ŧ	FY 2000	Б	January 00	8			FY 2001	_	January 01	۷ 01				
Delivery Date:		FY 1999	666				Ĕ┃	FY 2000	ŏ	October 00	8			FY 2001	_	October 01	آء اع				

			INDIVIDU	INDIVIDUAL MODIFICATION	ATION						Date		February 2000	2000	٦
MODIFICATION TITLE (Cont):	C	Crew Chemical	al Protection 1-91-05-4311	-91-05-431	1										
FINANCIAL PLAN: (\$ in Millions)) EV 1998														
	and Prior	FY 1999	FY 2000	FY 2001		FY 2002	FY 2003	500	7 200		7 200	75	1 1	TOTAL	
	Qty \$	Oty \$	Qty \$	φ	O \$	Qty \$	ğ	s	\$ You	ð	₩	ð	€	ğ	es l
RDT&E PROCUREMENT			700			7	716		ç			1 7 8 8		2501	
Kit Quantity Installation Kits			1.6	200	9.0	0.9		0.8		0.9	6.0		10.9	- 604	16.6
Installation Kits, Nonrecurring															
Equipment															
Equipment, Nonrecurring	8.0	0.8													1.6
Data) •														
Training Equipment															
Support Equipment															
Other															
Interim Contractor Support															
				_											
Installation of Hardware															
FY 1998 & Prior Eqpt Kits															
FY 1999 Eqpt Kits															
FY 2000 Eqpt Kits				264	0.2									264	0.2
FY 2001 Eqpt Kits						138 0.1	_							138	0.1
FY 2002 Eqpt kits							174	0.1					•	174	0.1
FY 2003 Eqpt kits									146 (0.1				146	0.1
FY 2004 Eqpt kits										~	153 0.1	_		153	0.1
EY 2005 Eapt kits												130	0.7	130	0.1
TC Equip-Kits												1586	1.2	1586	1.2
Total Installment				264		138 0.1	1 174	0.1	146 (153 0.1	1716	1.3	2591	1.9
Total Procurement Cost	0.8	0.8	1	9.	8.0	1.0	0	0.0		1.0	1.0	0	12.2		20.1

					MDIV	INDIVIDUAL MODIFICATION	ODIFIC/	NOIL		ļ				ľ	Date		February 2000	000	
MODIFICATION TITLE:	Block 1 1-84-05-402	1-84-05	-4026																
MODELS OF SYSTEMS AFFECTED: M113A2, M577A2, M981, M1059, M1064, M1068, OSV, M58	S AFFECTEL	. M113A	2, M577A	.2, M981	, M1059,	M1064,	M1068, (JSV, M5	89								!		
DESCRIPTION / JUSTIFICATION:	IFICATION:																		
Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine coupled with a new transmission. This powerfrain replaces less reliable components and results in reduced Operations and Support (O&S) costs while	ements to	enhance	mobili in repla	ity and	crew s	urvivat ble cor	oility. P	rovides	s a new results	, 275 F in red	lorse F uced (ower Operat	(HP) tı ions aı	urboch nd Sup	arged e port (O	angine &S) c	couple osts w	ed wit hile	<u></u>
increasing mobility to keep up with the	ity to keep	up with	the M1	Abran	s and	Bradle	y Fight	ing Ve	hicle S	ystem	fleet.	Interna	al spall	suppr	MI Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external	iners,	exterr	اع م	
done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.	ks and extended in the control of th	Army N	laster F	Priority	List (D	AMPL)	sedue	nce, a	t depot	or con	tractor	facilit	es.		Induming provisions increase dew survivability. Verified Conversion to the Astronomy and the Strain will be provided in the Priority List (DAMPL) sequence, at depot or contractor facilities.	5		2	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	rus / Major	DEVELO	PMENT	MILEST(ONES:		PLANNED		AC	ACCOMPLISHED	LISHE	<u>ا</u>							
IPR Production Decision:	ecision:								2	May 86									
TDP Available:									ے	June 86									
Installation Schedule:												i							
	Pr Yr	F	FY 1999			FY 2000		_	<u>\</u>	FY 2001			FY 2002	002			FY 2003	03	
	Totals	1 2	3	4	1	2	3	4	1 2	2 3	4		7	3	4	-	2	e	4
Inputs	1214 ,	40 40	41	41	47	47	47	47	72 72		73	34	35	8	32	43	4	43	4
Outputs	975	80 80	84	8	8	47	47	47	47 72	2 72	72	73	34	32	34	32	43	4	43
							-							Ī					
	Ĭ±	FY 2004			FY 2005	2	-	<u>ا</u> ا	FY 2006			≽	FY 2007			P			Totals
	-	2 3		-	2	က	4					2	က	4	Š	Complete			
Inputs	36	37 36	37	38	88	88	39									1586			4180
Outputs	44	36 37	36	37	38	38	38	39	32 33	3 32	33					1586		ļ	4180
METHOD OF IMPLEMENTATION:	ENTATION:	Depot	Depot/Contractor		ADMINISTRATIVE LEADTIME	FRATIVE	LEADT	ME	3	Months	·0	PROD	CTION	PRODUCTION LEADTIME:	ME	∑ ດ	Months		
Contract Dates:		FY 1999		December 98	ır 98	Ŧ	FY 2000	Janu	January 00			FY 2001	_	January 01	10				
Delivery Date:		FY 1999		May 99		፫	FY 2000	Octo	October 00			FY 2001	Ę	October 01	70				ì

					NDIVIDO	INDIVIDUAL MODIFICATION	FICATIO	z						Date	ē		February 2000	2000	
MODIFICATION TITLE (Cont):	Ш	3lock 1	Block 1 1-84-0	5-4026	[
FINANCIAL PLAN: (\$ in Millions)	FV 1998	Γ																	
	and Prior		FY 1999	F	FY 2000	FY 2001	100	FY 2002	102	FY 2003	203	FY 2004	04	FY 2005	95	TC	1	TOTAL	
	Qty \$	Qty	\$	Š	ઝ	ğ	\$	ğ	s	Qfy	\$	Ωţγ	↔	ð	€	ģ	\$	ŧ	s
RDT&E																	.,.		
Kit Quantity	2564	بر 	202	264	**	138		174		146		153	·	130		1586	-	5357	
Installation Kits	279.4		30	4	38.4		22.5		28.3		25.3		27.8		26.4		324.2		802.7
Installation Kits, Nonrecurring																			
Equipment	e 	3.4					i												3.4
Equipment, Nonrecurring																			
Engineering Change Orders																			Ç
Data	42	45.9													,				42.9
PM Support-Govt			2	eć.	2.4	4	2.5		2.7		2.7		2.8		2.9		33.9		52.2
System Tech Support -Contr			0	9.	÷	9	1.5		1.6		1.7		. 8.		1.8 8.		22.2		32.5
Other	2	2.0																	2.0
Interim Contractor Support																			;
Pre-Conversion/Modification			13	<u>5</u>	8.6	80	6.7		6.2		6.4		6.4		9.9		76.2		131.4
FDT		1.2	Ψ-	<u>o</u>	0.0	6	1.2		1.2		0.8		0.7		8.0		8.5		16.3
TPF	rt)	7.	_	ت	1.0	<u> </u>	1,2		0.1		- -		- -		1.2		<u>4</u>		27.4
Installation of Hardware																			
FY 1998 & Prior Eqpt Kits	1157 25	25.8 23	230 4	ιĊ														1387	30.3
FY 1999 Eqpt Kits				202	2 5.4													202	5.4
FY 2000 Eqpt Kits						264	9.7										-	264	7.6
FY 2001 Eqpt Kits								138	4.6									138	4.6
FY 2002 Eqpt kits										174	6.1							174	6.1
FY 2003 Eqpt kits												146	5.6					146	5.6
FY 2004 Eqpt kits														153	6.5			153	6.5
FY 2005 Eqpt kits																130	2.5	130	5.2
TC Equip-Kits																1586	63.4	1586	63.4
Total Installment	1157 25	25.8 2:	230 4	1.5 202	2 5.4	4 264	9.7	138	4.6	174	6.1	146	5.6	153	6.5	1716	68.6	4180	134.7
Total Procurement Cost	362.9	Н	33	4.	59.2	2	43.2		45.6		44.1		46.2		46.2		547.7		1248.5

	į					NDIN	DUAL N	INDIVIDUAL MODIFICATION	ATION]	Date		February 2000	00	Т
MODIFICATION TITLE:		Driver's Night Viewer	jht Vie		1-94-05-4463	-4463														
MODELS OF SYSTEMS AFFECTED:	IS AFFECT	1	1113 Fai	M113 Family of Vehicles	ehicles															
DESCRIPTION / JUSTIFICATION:	TIFICATION	Ë																		
The M19 image intensifier currently used on the M113 Family of Vehicles (FOV) has limited night vision. The AN/VVS-2 viewer has been adapted for use on the M113 FOV. The driver's night viewer enhances operational capability by providing travelling in darkness and low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.	intensifien adapted sness an	er curi d for u d low	rently ise on visibili		on the 113 F(ditions	M113 DV. Ti equal	Family he drivto tha	of Vel er's nig t on the	hicles ght vie e M1 4	(FOV) wer en	has lin hance s and E	nited n s opera 3radley	I on the M113 Family of Vehicles (FOV) has limited night vision. The AN/VVS-2(V)1A driver's night M113 FOV. The driver's night viewer enhances operational capability by providing capability for onditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.	ion. T capab ng Veh	he AN/ ility by iicle sy:	VVS-2 providi stems.	(V)1A ong cap	driver's ability f	night or	
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DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	TUS / MAJ	IOR DE	VELOP	MENT	AILEST(ONES:													1	
							PL	PLANNED	0	ACCC	ACCOMPLISHED	SHED								
TDP Available:										Se	September 94	er 94								
Partelletion Cohodule:																				
IIIstaliation oorteadie.	P. Yr		FY 1999	66			FY 2000	0			FY 2001		_	¥	FY 2002			FY 2003	13	
	Totals	-	7	8	4	-	2	3	4	-	2	3	4	1 2		4	F	2	3	4
Inputs	182	20 20	20 20	20 20	20	50	50	51 50	51	66	99	99 99	66 34 66 66	34 35 66 34	35	34	35	44	4 4 43	44 43
		FY 2004	\ \ 			FY 2005	05			FY 2006]		Ę	FY 2007			To		Totals	tals
	-	2	3	4	-	2	3	4	-	2	3	4	1	2 3	3 4	Ŝ	Complete			
Inputs	36	37	36	37	38	38	38	39	32	33		33					1586	•	•	3175
Outputs	44	36	37	36	37	38	38	38	39	32	33	32	33				1586			3175
METHOD OF IMPLEMENTATION:	MENTATIO	1	Spot/C	Depot/Contractor		DMINIS	TRATIV	ADMINISTRATIVE LEADTIME:	TIME:	2	24 Months	ths	PRO	OUCTIO	PRODUCTION LEADTIME:	IIME:	<u>გ</u>	Months		
Contract Dates:			FY 1999		January 99	36	Ĺ	FY 2000	Jar	January 00			FY 2001	01	January 01	,01				
Delivery Date:		-	FY 1999		April 99		Ĺ	FY 2000	ΑÞ	April 00			FY 2001	101	April 01					

					INDINI	JAL M	INDIVIDUAL MODIFICATION	TION						٥	Date		February 2000	2000	
MODIFICATION TITLE (Cont):	<u> </u>	Drive	Driver's Night		Viewer 1-94-05-4463	-05-44	63												
FINANCIAL PLAN: (\$ in Millions)	1000	Γ																	
	and Prior	1_	FY 1999	\vdash	FY 2000	F	FY 2001	Ľ	FY 2002	F	FY 2003	F	FY 2004	FY 2005	305	T		TOTAL	
	Qty ♣		Qty \$	Н	Qty \$	ğ	ty \$	ð	\$	ğ	ક્ક	ð	\$	Qţ	€	Qty	\$	σţλ	69
RDT&E PROCUREMENT	0		ç		790		000	*	77	7,46	a	153		280		2. 20.2. 20.2.		3475	
Kit Quantity Installation Kits	305	0		9.0		- 60		6.0	1.3		1.0		1.2		1.0	200	12.2	2	23.0
Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support		0.2						1190									Western		0.2
Installation of Hardware FY 1998 & Prior Eqpt - Kits FY 1999 Eqpt - Kits FY 2000 Eqpt - Kits FY 2001 Eqpt - Kits FY 2001 Eqpt - Kits	200 0	0.2	182	0.2	202	0.2	264 0	0.2	138 0.2	2 174	4 0 6.0	m						382 202 264 138	0.0 0.0 0.0 0.0 0.0 0.0
FY 2003 Eqpt – kits FY 2004 Eqpt – kits												146	0.3	153	0.4			146 153	0.3
FY 2005 Eqpt kits																130	0.3	130	0.3
Total Installment	200	0.2	182	0.2	202	0.2	264 0	0.2	138 0.2	2 174	4 0.3	3 146	0.3	153	0.4	1716	4.0	3175	6.0
Total Procurement Cost		3.4		9.0		П				1.5	1.3	3	1.5		1.4		16.2		29.2

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	. .					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat \	CMBT VEHS / 1 / Tra	acked Combat Vehicles	SE				FIST	FIST VEHICLE (MOD) (GZ2300)	2300)		
Program Elements for Code B Items:	KS:			Code:	Other Related Program Elements:	ım Elements:						
ö	0203735A			æ	·							
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv			19	27	26	29	42	77	48	48		316
Gross Cost	0.0	0.0	15.2	24.5	27.1	31.9	35.7	47.1	47.3	38.0	15.0	281.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	15.2	24.5	27.1	31.9	35.7	47.1	47.3	38.0	15.0	281.9
Initial Spares												
Total Proc Cost	0:0	0.0	15.2	24.5	27.1	31.9	35.7	47.1	47.3	38.0	15.0	281.9
Flyaway U/C												
Won Svs Proc U/C			æ	<u>ه</u>	1.0	7	6:	ø.	1.0	œ		

Support Team is attached to a mechanized infantry or armor company and is primarily responsible for developing and executing fire support plans that enable success operations. The BFIST replaces the aging M981 Fire Support Vehicle for fire mission planning, support and execution for maneuver company commanders. The Fire DESCRIPTION: The Bradley Fire Support Vehicle (BFIST) integrates Mission Equipment Packages into a Bradley Fighting Vehicle to support heavy maneuver force on the battlefield. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as other Bradley maneuver units. JUSTIFICATION: The current Fire Support Vehicle M981 was unable to maintain the operational tempo of Bradley /Abrams equipped maneuver forces during Operation not previously received the BFIST vehicle. Additionally, the M981 displayed a number of operational deficiencies and shortcomings remedied by the BFIST design. The Desert Storm (ODS). The A3 BFIST will diplace fielded BFIST ODS vehicles. Those displaced vehicles will be modernized overhauled, then fielded to units that have BFIST provides synchronization of combined arms operations.

Total Cost	-	∢ "	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT	dget Activity	/Serial No: & TRKD CMBT	_	P-1 Line Item FIST V	P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)	.GZ2300)		Weapon System Lype:		Date: Febru	February 2000
Columbia FY 98 FY 99 FY 99	WICV COST Analysis		VEHS / 1 / T	racked Comb	bat Vehicles									
19 TotalCost Oty UnitCost Oty UnitCost Oty UnitCost SOOO Each SOOO Each SOOO Each SOOO Teach SOO Teach SOO TE		П		FY 98			FY 99		-	₹ 90			FY 03	
\$000 Each \$000 Each \$000 \$100 \$200 \$100 \$270 \$10		00	TotalCost	Qfy	UnitCost	TotalCost	Q.	UnitCost	TotalCost	Qty	UnitCost	TotalCost	ģ	UnitCost
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15522 1348 1348 1348 4000 4000 4000 8991	Hardware Cost 1. Vehicle Upgrade					9709		360	7240	26	278	7510	58	259
BTOTAL n Recurring Production Engineering Contractor Engineering Contractor Engineering Government Program Management Administration Reimbursable Matrix Support Fielding Test & Evaluation TMDE (DSETS) IMDE (DSETS)	2. INER 3. Pre-Mod Depot Maintenance					5813		277	7589	78		8579	78	296
n Recurring Production Engineering Contractor Engineering Covernment Program Management Administration Reinbursable Matrix Support Fielding Test & Evaluation TMDE (DSETS) IBTOTAL	SUBTOTAL					15522			16876			18317		
Fielding Test & Evaluation TMDE (DSETS) IBTOTAL TAIL			-			1123 1348 404 334			2920 1108 332 275			5170 1329 398 329		
TAL.						1440 342 4000			5604			5955		
TAL														
	SUBTOTAL					8991			10239			13581		
	TOTAL	1 1011				24513			27115			31898		

Exhibit	Exhibit P-5a, Budget Procurement History and Planning	History ar	nd Planning					Date:	February 2000	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles						FIST	FIST VEHICLE (MOD) (GZ2300)	GZ2300)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΔI	Unit Cost		_	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
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FY 99	UDLP, York, PA	SS/FFP	USATACOM, Warren, MI	Nov-98	Jan-00	27	360			
FY 00	UDLP, York, PA	SS/FFP	USATACOM, Warren, MI	Mar-00	Feb-01	7 20	278			
FY 01	UDLP, York, PA	SS/FF	USA I ACOM, Warren, MI	00-A0N	Jai 1-02	ŝ	ec.			
2. MEP								-		
FY 00	SEI, Sanford, FL	SS/FFP	USATACOM, Warren, MI	Dec-99		27	76			
FY 01	SEI, Santord, FL		USATACOM, Warren, MI	OO-AON	- - - - - - - - - - - - - - - - - - -	R	`			
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omer	l	Г	ΔШО		T		2											,			T					2	O H O	1	INITIAL	REORDER	INITIAL	INITIAL	REORDER	NITIAL	NEURUER
P-1 Item Nomenclature:	l		z 0 >				2															T				2	z 0 >	MFR	_			Г	٦		Τ
p-4 lk			0 U F				2																			2	0 C					L	╝		┸
	BAL	one :	AS OF 1 OCT				9	59																				REACHED	₽						
: :	ACCEP.	PRIOR	TO 1 OCT		19	27	50	0																					MAX.						
JLE	PROC	Σ	Each		19	27	56	29																				PRODUCTION RATES	1-8-5						
HEDL		Ø	m & >		∢	٧	۷	∢																				RODUCTI	+						
ION SC			FY		FY 98	FY 99	FY 00	FY 01																					Σ	ŀ					
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FY 00 / 01 BUDGET PRODUCTION SCHEDULE			COST ELEMENTS	1. Vehicle Upgrade																						Total			NAME / LOCATION	UDLP, York, PA					

								Date:				
		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	l No:					P-1 Item Nomendature:	.e:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat V	CMBT VEHS / 1 / Tra	acked Combat Vehicles	les				BFVS	BFVS SERIES (MOD) (GZ2400)	2400)		
Program Elements for Code B Items:	:5			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty		1										
Gross Cost	684.0	113.6	58.6	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	1206.7
Less PY Adv Proc												
Plus CY Adv Proc												1
Net Proc (P-1)	684.0	113.6	58.6	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	1206.7
Initial Spares												
Total Proc Cost	684.0	113.6	58.6	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	1206.7
Flyaway U/C												
Wpn Sys Proc U/C												

battlefield fratricide. The M2A2ODS to M3A2ODS conversion program will reconfigure M2A2ODS vehicles to the M3A2ODS configuration to allow fielding under the pure fleet concept in accordance with the Armored Systems Modernization Plan. Most of these modifications will be applied concurrently in "blocks" to reduce application pack. The A1 to A2 conversion effort is complete. Operational improvements are the Transmission Electronic Controller, the Vehicle Intercommunications System, the Bradley Fighting Vehicle. The Operation Desert Storm improvements are 5 ECPs which will correct deficiencies identified in Operation Desert Storm and include: Laser Digital Electronic Control Assembly, and Armor Tiles. The A2 ODS Applique(+) modification will integrate Bradley Fighting Vehicles with the Army's Applique computer effort increases the vehicle survivability and brings the vehicle up to the current A2 configuration, with the addition of the High Survivability Kit and the 600HP power Range Finder, Position Navigation System, Equipment Restow Improvement, Combat Identification System, and Drivers Vision Enhancer. The A1 to A2 conversion DESCRIPTION: The funds appropriated, budgeted, and programmed in this budget line will provide for the procurement and application of modification kits for the system to improve situational awareness. The Battlefield Combat Identification System will provide positive identification of friendly ground vehicles to minimize cost and inconvenience to the unit.

improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and JUSTIFICATION: The programs in these P-Forms were initiated to meet requirements identified to correct deficiencies identified in Operation Desert Storm and to mobility will occur if these modifications are delayed or reduced.

	Exhibit P-40	Exhibit P-40M Budget Item Justification Sheet	em Justifica	ation Sheet		<u> </u>	Date	:	February 2000		
Appropriation / Budget Activity/Serial No.) 			P-1 Item Nomendature						
PROCUREME	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	icked Combat Vehicle	ø				BFVS S	BFVS SERIES (MOD) (GZ2400)	2400)		
Program Elements for Code B Items	ems		Code	Other Related Program Elements	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
A1-A2 Conversion											
1-84-05-4038	Oper. Capability	381.9	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	404.2
A2 ODS Mods											
1-92-05-4404	Oper. Capability	149.8	18.4	2.1	1.0	7.5	21.3	17.3	0.0	0.0	217.3
Transmission Elect	Transmission Electronic Controller (TEC)										
1-90-05-4282	Oper. Capability	14.5	3.2	0.0	0.0	1.2	1.2	0.0	0.0	0.0	20.1
Vehicle Intercom System	ystem										
1-90-05-4284	Oper. Capability	13.1	1.4	0.0	0.0	1.3	4.	0.0	0.0	0.0	17.2
DECA											
1-93-05-4441	Oper. Capability	17.4	1.9	0.0	0.0	0.8	9.0	0.0	0.0	0.0	20.8
HALON Replacement	ent										
1-92-05-4422	Legisl. Compliance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A2 ODS Applique											
1-98-05-4539	Oper. Capability	0.0	10.0	2.7	16.6	7.8	16.0	11.9	11.9	0.0	76.9
Battlefield Combat	Battlefield Combat Identification System										
1-98-05-4546	Operational Capability	0.0	0.0	1.9	2.6	2.6	2.6	1.3	0.5	0.0	11.6
A2 High Payoff Imp	A2 High Payoff Improvements (No P3a Set)										
1-98-05-4550	Operational Capability	0.0	0.0	0.0	0.0	0.0	9.9	29.1	47.1	0.0	82.8
Armor tiles											
1-84-05-4038	Oper. Capability	72.1	16.7	24.6	0.0	0.0	0.0	0.0	0.0	0.0	113.5
M2A2ODS to M3A2ODS Conversion	2ODS Conversion										
1-99-05-4564	Oper. Capability	0.0	0.0	0.0	17.1	18.0	0.0	0.0	0.0	0.0	35.0
Totals		648.8	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	999.4

						IND	√NDN	T MOL	INDIVIDUAL MODIFICATION	LION								Date		Fel	February 2000	00	
MODIFICATION TITLE	A1-A2 Conversion 1-	. Con	versic		84-05-4038	038																	
MODELS OF SYSTEMS AFFECTED: M2A1 (IFV) / I	S AFFECTE	ED:	12A1 (IF	/N / (V	M3A1 (CFV)	5																	
DESCRIPTION / JUSTIFICATION:	FICATION																						
The BFVS conversion effort converts the A1 configuration to an A2 configuration.	rsion eff	orto	onvert	s the A	1 00	nfigur	ation	to an	A2 cc	nfigu	ratior	_:											
The conversion effort includes:	effort incl	ndes	.,																				
1. High Survivability (HS) Kit which will enhance vehicle survivability through the application of alternate armor and selective use of crew	ility (HS)	室 (hich	will ent	ance.	vehi	se su	rvival : al	elity Sility	hroug	h the	appl:	icatio	n of a	altern	ate ar	mor a	nd se	ective:	e nse	of cre	≷	
compartment spall liners for increased protection against threat from frontal attack. The HS kit also contains other associated changes such as restowants twim curtain IEV firting ports, and M240 cum unright.	all liners 1 vim curta	한 년 표 표	creas V firir	ed prot		ר aga M24	nst tr	reat 1		ronta	attac	×.	e T	K B	တ္တ တွ	ntain	s otne	r asso	ociate	a chal	nges :	sucn	·
2. The 600HP power pack, which includes the 600 HP engine and the reliability improved 500-3 Transmission which eliminates the adverse	wer pack	, <u>k</u>	ich in	Sapulc	the 6	100	eng	ne ar	d the	relial	oility i	mpro	ved 5	00-3	Trans	smiss	ion w	ich el	limina	tes th	e adv	erse	
impact of increased vehicle weight on vehicle performance and reliability, resulting from High Survivability changes.	ed vehic	% ≪	eight (on vehi	cle p	ərforn	ance	and	reliab	ility, r	esulti	ng fr	ш Н	gh S	urviva	bility	chanc	jes.					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	US / MAJO	N DE	VELOP	MENT N	IILEST	ONES					PLANNED					ACC	OMPL	ACCOMPLISHED	Ω				
Preliminary Design Review:	ew:									_	¥												
Critical Design Review:										_	¥												
Contractor Test and Evaluation:	luation:									_	¥												
Development Test and Evaluation:	valuation:									_	¥												
Initial Operational Test and Evaluation:	nd Evaluati	ion:								_	₹												
IPR Production Decision:	ä									3089 3089	စ္တ စ္က	٠						3089 3089					
Installation Schedule:																							
	Pr Yr		FY 1999	66			F	FY 2000		Ш		FY 2001	_			ᅜ	FY 2002				FY 2003	_	
	Totals	=	7	8	4	-	2		8	4	-	7	က	4		2		8	4	+	7	6	4
Inputs Outputs	1294	14	14	32																			
-																							
		FY 2004	8	Н		FY 2005	9				FY 2006		Н		£	FY 2007		L		To		2	Totals
	_	7	က	4	F	2	3		4	-	7	9	4	-	2	3		4	Complete	<u>e</u>			
Inputs	-																						1340
METHOD OF IMPI EMENTATION:	NOITATION	1	tong	Danot Conversion		ADMINISTRATIVE I FANTIME:	STRA		APTA	 - <u>ﻧ</u> ୁ	<u>`</u>	ž	Months		200		PRODITICATION I FADTIME:	TIME	1	Months	ths.		
Contract Dates:			FY 1999	A'N				FY 2000	9	¥ Z				_	FY 2001		! ≰ X	i	!		2		
Delivery Date:		ш.	FY 1999		¥N			FY 2000	8	Ν					FY 2001	τ-	ΑX						
		l			۱	l						İ											

February 2000			TOTAL	e City	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1358 47.5 1358 39.2 1358 1910		2.8	•	<u>i</u>		1340 108.1			_
Date			FY 2005	e Ciù											
			FY 200	χ Δ							A				
			7 2002	A P	_						<u> </u>				_
INDIVIDUAL MODIFICATION	81		7 2001	\$ CG				• • • • • • • • • • • • • • • • • • •							
INDIVIDUAL	A1-A2 Conversion 1-84-05-4038		7 2000	r Ci								2,			
	-A2 Conversi		7 199	r Cig						97 14.1		57 8			
	A1	FY 1998	d P	ÇÝ		1358 47.5 1358 39.2		α ς	í			1283 99.9			
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)		į	RDT&E PROCUREMENT Kit Quantity Installation Kits	600 HP Engine 500-3 Transmission	Figure Survivability Kits Engineering Change Orders	Training Equipment Support Equipment	Interim Contractor Support	Pre-mod Depot Maintenance		Installation of Hardware FY 1998 & Prior Eqpt Kits	FY 1999 Eqpt - Kits FY 2000 Eqpt - Kits FY 2001 Eqpt - Kits FY 2002 Eqpt - Kits FY 2003 Eqpt - Kits	FY 2005 Eqpt - kits	- TOTAL

						<u>N</u>	VIDUA	_ MODI.	INDIVIDUAL MODIFICATION	N O							Date		Febr	February 2000	
MODIFICATION TITLE	. A2 0	DS N	A2 ODS Mods 1-92-	-	05-4404																
MODELS OF SYSTEMS AFFECTED: M2A2/M3A2	S AFFEC	TED:	M2A2/M;	342																	
DESCRIPTION / JUSTIFICATION:	FICATION	ä																			
Six vehicle improvements (ECP's) which will correct deficiencies identified in Operation Desert Additionally included in this effort are Amored Harches to further improve vehicle survivability.	ents (ECP' in this effo	's) whic	th will co	rrect defi	iciencie to furth	s identi	fied in C ove veh	perationicle sun	n Deser vivability	t Storm	. These	increas	e vehic	le lethal	ty and s	survivab	lity and	deficiencies identified in Operation Desert Storm. These increase vehicle lethality and survivability and situational awareness. es to further improve vehicle survivability.	al aware	eness.	
a. Laser Range Finder: will give the BFVS a first burst on target capability and reduce the time required to acquire and kill a target. b. Position Navigation System: Global Positioning System (GPS) internation hardware and a self calibration digital compass. This will enable the Bradley commander to determine his	r: will give	the BF	VS a fire	t burst o	n targe	t capabi	ility and	reduce	the time	e require	ed to ac	quire ar	nd kill a	target. This w	ll enah	the Br	oo velbe	mmande	ir to det	ermine	ij
exact location at all times and determine the heading and distance to any location.	nes and d	etermir	ne the he	ading an	nd dista	nce to a	iny loca	tion.	5	5	,						S Comm				2
 Equipment Restow Improvement: Improves the method of stowing internal and external equipment. Combat Identification System: Provides integration hardware for a passive system that will provide visual and thermal signatures detectable between ground to ground vehicles and 	Improvem on System	ent: Im : Provic	proves to the second t	he methor ration ha	od of ste	owing ir for a pa	itemal a assive s	and exte	rnal equ hat will p	sipment provide	visual a	nd therr	nal sigr	atures	detectat	ole betw	een grou	ınd to gro	an punc	hicles a	뎔
from air to ground.	<u>.</u>	•	, i	20 C	•	. 4	30	,			40.16	1	1	1	1	1	•)			
e. Driver's I nermal viewer': increases the driver's ability to see through batteried obscurants such as dust, rog and smoke during night and day. f. Missile Countermeasure Device: Provides additional protection against a variety of anti tank missiles.	ewer: Incr sure Devic	eases 1 ce: Pro	me anve vides ad	rs abliny ditional p	to see rotectic	inrougr on agair	n battlet nst a val	ieid obs riety of a	curants ınti tank	sucn a missile	s dust, n s.	og and (smoke	n guinne	ignt and	day.					
SEVEL CHAFILE STATILS / MA 100 DEVEL OBMENT MILESTONIES	I IC / MA	100	90 13/2	MENIT	100 111	ONE O				Ē	DI ANINED	 <u>-</u>			V	<u>aw</u> O	ACCOMBI ISHED	ا			
Preliminary Design Review:	ew:	2	VELO								4093]			2	4093	3	וב			
Critical Design Review:											2094					2094					
Contractor Test and Evaluation:	lluation:										3094					3094					
Development Test and Evaluation:	=valuation:										4Q94					1095					
Initial Operational Test and Evaluation:	ınd Evalua	ation:									1095					1095					
IPR Production Decision	_										2095					2095					
Installation Schedule:																					
	Pr Yr		FY 1999	66	П		FY 2000	000			FY;	FY 2001			Ā	FY 2002			ᆫ	FY 2003	
	Totals	F	2	3	4	F	2	3	4	1	2	3		4		2	3	4 1	2		3
Inputs Outputs	922	8 6	86 6	86 86	98	20 20	50	7	8 /	∞ ∞	∞ ∞	တ ထ		9 15		4 4	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 8	ω ω		7 20 8 7
•																					
		FY 2004	704			FY 2005	305			F	FY 2006			占	FY 2007			To			Totals
	1	7	3	4	F	2	3	4		2	3	4			2	8	4	Complete			
Inputs	19	19	19																		1570
Outputs	20	19	6	19	_					,											1570
METHOD OF IMPLEMENTATION:	ENTATIO		Contr/Depot/Field	pot/Field		DMIN	STRAT	IVE LEJ	ADMINISTRATIVE LEADTIME:	:	9	Months	m	PROF	UCTIO	PRODUCTION LEADTIME:	JTIME:	12	Months	s	
Contract Dates:			FY 1999	Δ	Dec 98		_	FY 2000		¥X				FY 2001	5	Š					
Delivery Date:		_	FY 1999	Δ	Dec 33		_	FY 2000		Ϋ́				FY 2001	2	ΑŅ					

February 2000			TOTAL	\$ Oty \$		1590 166.5		2.0	5. 8.			77 20.2				_	137 6.6		32 1.6				
Date F			FY 2005 TC	\$ Qty \$											······································								
			-	\$ Qty		4.3						10.9	-1.0					•		`	2.1	7.7	
			3 FY 2004	\$ Oth		9.6						9.4		·	···				1.6		0.7		
			FY 2003	Qty		6.3						9g 		lication	sective P-form:		1.2		32	-	CI CI	<u>. </u>	CI.
NC			FY 2002	Oty \$		26								ts for ODS app	d on their rest 		24			_			
INDIVIDUAL MODIFICATION			FY 2001	Oty \$										rofit only. Cost	on are reflecte		20 1.0						
INDIVIDUAL	2-05-4404		FY 2000	Oty \$							•			lied by field ret	41-A2 conversi		43 2.1						
	A2 ODS Mods 1-92-05-4404		FY 1999	s		137 10.1			0.7					reflect kits app	onversion and ⊁ 	118 5.8	50 2.4						
	A2 OD	EV 1008	<u> </u>	\$ Qty		136.2		2.0	5.8					utities and costs	ıcture, BFIST α 	5.9							<u></u>
	∟E (Cont):	L	an	ğ		1320	nrecurring	urring	e Orders			tenance		NOTE: Application quantities and costs reflect kits applied by field retrofit only. Costs for ODS application	during AO-A2 remanufacture, BFIST conversion and A1-A2 conversion are reflected on their respective P-forms.	are Eqpt Kits 695	Cits		cits		cits	dits dits	its dits
	MODIFICATION TITLE (Cont):	FINANCIAL PLAN: (\$ in Millions)			RDT&E PROCUREMENT Kit Quantity	Installation Kits	Installation Kits, Nonrecurring Equipment	Equipment, Nonrecurring	Engineering Change Orders	Training Equipment	Other	Pre-mod Depot Maintenance		LON	durin	Installation of Hardware FY 1998 & Prior Eqpt Kits	FY 1999 Eqpt Kits	FY 2000 Eqpt Kits FY 2001 Eqpt Kits	FY 2002 Eqpt kits		FY 2003 Eqpt kits	FY 2003 Eqpt kits FY 2004 Eqpt kits	FY 2003 Eqpt – kits FY 2004 Eqpt – kits FY 2005 Eqpt – kits TC Fquio-Kits

						N	/IDUAL	MODIF	INDIVIDUAL MODIFICATION	z							Date		February 2000	000	
MODIFICATION TITLE:	Tran	smiss	ion El	Transmission Electronic Controller (TEC) 1-90-05-4282	c Con	troller	(TEC)	1-90-	05-42	82											
MODELS OF SYSTEMS AFFECTED: M2A2/M3A2	S AFFEC	TED:	M2A2/M	3A2																	
DESCRIPTION / JUSTIFICATION:	FICATIO	ä																			
The Transmission Electronic Controller (7	n Electr	ronic (Contro		EC) re	places	s the r	ydron	echar	ical t	ransır	issior	r cont	rol wit	h an e	ectrol	nechai	nical co	TEC) replaces the hydromechanical transmission control with an electromechanical control. The	<u>je</u>	
TEC directly improves transmission maintainability and reliability. The control features of TEC will provide improved acceleration, fuel	roves tr	ransm	ission	maint	inabi	ity an	d relia	billity.	The co	ontro	featuı	res of	TEC	will pr	ovide	impro	/ed acc	selerati	on, fuel		
utilization and hot and cold performance,	ot and co	old be	ərform		nd be	tter lo	w spe	ed ma	and better low speed maneuverability.	rabilit	÷										
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MA.	JOR DE	EVELOP		MILESTONES:	:SENC															
IPR Production Decision: 2Q94 TDP Available: 2Q94	ecision: Q94	: 209	4																		
												•									
Installation Schedule:																					
	Pr Yr		FY 1999	66			FY 2000	00	H		FY 2001	100			占	FY 2002			FY 2003	33	
	Totals	+	2	3	4	=	2	3	4	Ŧ	2	3	4	,	,	2 3	4	-	2	3	4
Inputs	483	105	105	104	56	50	49	7	ω ι	0 0 0	ω (6					ω;	ω σ	ω σ	۷ ر	7 20
Outputs	304	S S	2	201	₹	000	8	2	+	٥	٥	$^{\circ}$	0	2	<u>+</u>	<u>+</u>		5	•	5	T
		FY 2004	800			FY 2005	05	-		FY 2006	900			<u> </u>	FY 2007			2		Tot	Totals
	-	2	3	4	-	2	6	4	F	2	8	4				3 4		Complete			
Inputs	19	19	19							-											1157
Outputs	20	19	19	19																	1157
METHOD OF IMPLEMENTATION:	ENTATIO		Contr/De	Contr/Depot/Field		DMINIS	STRATI	ADMINISTRATIVE LEADTIME:	DTIME:		9	Months	,,	PROL	UCTIO	PRODUCTION LEADTIME:	TIME:	9	Months		
Contract Dates:		_	FY 1999		Jan 99		_	FY 2000		ΑX				FY 2001	01	۷ N					
Delivery Date:		-	FY 1999		Aug 99		4	FY 2000		A/A				FY 2001	2	Α/N					

			AUDIVIDUA	INDIVIDUAL MODIFICATION	NC NC			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	Tr	Transmission El	Electronic Controller (TEC) 1-90-05-4282	roller (TEC) 1	-90-05-4282					
FINANCIAL PLAN: (\$ in Millions)	EV 1008									
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Qty \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PROCUREMENT										
Kit Quantity	870 14.5	175 3.2			55 1.2	57 1.2				1157 20.1
Installation Kits										
Installation Kits, Nonrecurring										
Equipment										
Equipment, Nonrecurring										
Engineering Change Orders										
Data										
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
NOTE: Application is budgeted as part of the A2 ODS program	ו יח is budgeted as	part of the A2 O	DS program				·			
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits						•				
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment										
Total Procurement Cost	14.5	3.2			1.2	1.2	<u>~</u>			20.1

						QN.	NIDU/	IL MOD	INDIVIDUAL MODIFICATION	NO							Date	æ		February 2000	2000	
MODIFICATION TITLE:	: Vehi	Vehicle Intercom Syst	ercon	Syste	em 1-	tem 1-90-05-4284	4284															
MODELS OF SYSTEMS AFFECTED: A2 ODS M2/M3	S AFFEC	TED: A	72 ODS	M2/M3																		
DESCRIPTION / JUSTIFICATION:	IFICATIO	ä																				
The VIS system is a replacement for the	is a rep	lacem	ent fo	r the /	NVV.	0-1 in	tercor	n syst	em. It	isac	ligital godi;	interc	om sy	/stem	which	prov	des ir	nterna	al com	munic	AN/VIC-1 intercom system. It is a digital intercom system which provides internal communications as	as
Well as access to the vellicle ladios. This		200	8 2 3 3	2	מ	20-1-0		<u> </u>		3	a D D	2	2	is a non-developmental rent to be applied to the Az ODO venicles.		į Š						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	TUS / MA.	JOR DE	VELOF		MILES	MILESTONES	. .			P	PLANNED					A	SCON	ACCOMPLISHED	HED			
Preliminary Design Review:	iew:										ΑN						¥	⋖				
Critical Design Review:											¥						¥	⋖				
Contractor Test and Evaluation:	aluation:										¥						Ž	⋖				
Development Test and Evaluation:	Evaluatior										₹						Ϋ́	⋖				
Initial Operational Test and Evaluation:	and Evalu	ation:									2095						X :	2095				
IPR Production Decision	_										3095 NA						Ö ≱	3095 NA				
Installation Schedule:											5											
	Pr Yr		FY 1999	999			F	FY 2000			Œ	FY 2001				FY 2002	2	Н		FY 2003	203	
	Totals	-	2	3	4	1	2			4	-	2	3	4	-	2	3	4	7	2	က	4
Inputs	505 406	86 6	8 8	8 8	0 0 8	50	49 50	7		8 /		ω ω	റ യ	ن و	4 5	4 4	<u>4</u> 4	<u>ω 4</u>	ω ω	<u></u> α	~ 8	20
		FY 2004	<u>8</u>			F	FY 2005		Ц	Œ	FY 2006		Н		FY 2007		Н		오		 	Totals
	-	2	3	4	7-	2	3	4	Ì		2		4	-	7	က	4	ঠ	Complete			
Inputs	19	19	19																			1153
Outputs	20	19	19	19								_	4	\dashv	\dashv	-	1		1			1153
METHOD OF IMPLEMENTATION:	ENTATIC		contractor/Depot	or/Depo	; ; ••	ADMIN	ISTRA:	IIVE LE	ADMINISTRATIVE LEADTIME:	。 道	9	Months	ths	Œ i	PRODUCTION LEADTIME:	17 NO!	:ADTIN	ij	9	Months		
Contract Dates:			FY 1999		Mar 99			FY 2000	8 8	¥ \$				<u> </u>	FY 2001	¥ ž	e e					
Delivery Date:			1 332		Se dae		١	Į,	3	<u> </u>		١						l	ı			

			INDIVIDUA	INDIVIDUAL MODIFICATION	z			Date	Februal	February 2000	
MODIFICATION TITLE (Cont):	у М	Vehicle Intercom System 1-90-05-4284	n System 1-90)-05-4284							
FINANCIAL PLAN: (\$ in Millions)	FY 1998	 -									
	and Prior	196	7 200	/ 200	7 200	7 200	/ 200	7 200	ပ	TOTAL	
	Oty \$	Qty \$	Qt⁄	Oty \$	Qfy \$	Oty \$	Qty \$	Oty \$	Oty &	ð	€9
RDT&E PROCUREMENT Kit Quantity											
Installation Kits	964 13.1	77 1.4			55 1.3	57 1.4	-			1153	17.2
Installation Kits, Nonrecurring											
Equipment Nonrecuring											
Engineering Change Orders											
Data											
Training Equipment					-						
Support Equipment											
Interim Contractor Support											
APPLICATIONS	CHEDULED AN	APPLICATION SCHEDULED AND BUDGETED AS PART OF A20DS PROGRAM	S PART OF A2C	DS PROGRAM							
Installation of Hardware											
FY 1998 & Prior Eqpt Kits											
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits											
FY 2001 Eqpt Kits											
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt - kits											
FY 2005 Eqpt kits											
TC Equip-Kits											
lotal installment					-		-				1,1
Total Procurement Cost	13.1	1.4			1.3	1.4					7.71

						NDI)	/IDUAL	INDIVIDUAL MODIFICATION	ATION							Date			February 2000	8	
MODIFICATION TITLE:	Digita	al Elec	stronic	Contr	ol Ass	embly	(DEC	Digital Electronic Control Assembly (DECA) 1-93-05-4441	3-05-4	441											
MODELS OF SYSTEMS AFFECTED: M2A2/M3A2	S AFFECT		12A2/M	3A2								!									
DESCRIPTION / JUSTIFICATION:	FICATION	ÿ		i									}								
The Digital Electronic Control Assembly (DECA) is the microprocessor based controller of the turret drive system. It transfers signals from	ronic Co	ontrol	Assen	J) yldr)ECA)	is the	micro	proces	sor ba	o past	ontroll	er of t	he tur	et driv	e syst	em. It	transfe	ers sig	ınals fi	uo.	
crew and sensor inputs to the appropriate subsystem to execute a specific task. The DECA replaces the Electronic Control Assembly (ECA) and provides built in testing, improved reliability and elimination of hull and turret ovro.	inputs t	o the	appro	oriate	subsy ability	stem t and e	o exec	ute a s ion of l	pecifi Juliar	c task nd turr	. The l	JECA J.	replac	ses the	Elect	onic C	ontrol	Asse	mbly (ECA)	
		n D									3										
									1		1										
DEVELOPMENT STATUS / MAJOR DEVELOPMEN	US / MAJ	OR DE	VELOP	MENT	T MILESTONES:	ONES:			⊡	PLANNED				ĕ١	SS	ACCOMPLISHED					
Preliminary Design Review:	ew:									_	₹										
Critical Design Review:										Z	₹										
Contractor Test and Evaluation:	lluation:									Z	ΑĀ										
Development Test and Evaluation:	=valuation:									Z :	₹										
Initial Operational Test and Evaluation:	ınd Evalua	ıţion:								z	¥.				ì						
IPR Production Decision										Ö (3089 2089				× ×	3089					
TDP Available:										Ď	3089				<u>م</u>	3008					
Installation Schedule:									ŀ				-				ŀ				
	Pr ⊁	f	FY 1999		+	-	FY 2000		-	-	FY 2001		†	ŀ	FY 2002	- 1	+	+	FY 2003		1
4	Totals	- 2	7 5	<u>ه</u> و	4 5	- 6	7 0	2 2	4 α	- a	7 α	n 0	4 4	- 4	7 4	2 4	4 «	- «	7 @	م ا	\$ 5
Outputs	377	9 9	9 6	9 6	9 6	20	20	- 64	^	ο σο	ο α	0 00	6	15	14	14	14	8	8	8	7
•																		ŀ			
		FY 2004	90			FY 2005	905			FY 2006	90		Ì	FY 2007	- 1	П		၉		ř	Totals
	1	2	3	4	1	2	3	4	-	7	3	4	-	2	3	4	Complete	olete			
Inputs	19	19	19																		1095
Outputs	20	19	19	<u></u>										-		1		7	:		1095
METHOD OF IMPLEMENTATION:	ENTATIO		Depot/Field			DMINIS	STRATI	ADMINISTRATIVE LEADTIME:	TIME	:	24 M	Months	o . i	PRODUCTION LEADTIME:	TION I	EADTIM:		24 M	Months		
Contract Dates:		_	FY 1999		Jan 99		L 1	FY 2000	Z :	ĕ :			_ 1	FY 2001	₹ :	∢ •					
Delivery Date:			FY 1999		Sep 99		۱	FY 2000	z	A/N			-	FY 2001	N/A						7

			NDIVIDUA	INDIVIDUAL MODIFICATION	z			Date	Februa	February 2000	
MODIFICATION TITLE (Cont):	۵	DECA 1-93-05-4441	4441								
FINANCIAL PLAN: (\$ in Millions)	77.4000										
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	70	TOTAL	
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	oty \$	Oty \$	ğ	€
RDT&E PROCUREMENT											
Kit Quantity										9	ć
Installation Kits	17.6	263 1.9			32 0.8	24 0.0	0			CRO	V.02
Equipment											
Equipment, Nonrecurring											
Engineering Change Orders											
Training Equipment											
Support Equipment											
Other											
Interim Contractor Support											
					P.						
APPLICATION BUDGETED AS PART OF A1-A2 CONVERSION AND A2 ODS APPLICATION	IDGETED AS F	 >ART OF A1-A2	 CONVERSION A	 ND A2 ODS APP	LICATION						
Installation of Hardware											
FY 1998 & Prior Eqpt Kits											
FY 1999 Eqpt Kits		-									
FY 2000 Eqpt Kits											
TV 2000 Fact Life											
F1 2002 Eqpt Kits FY 2003 Font Kits											
FY 2004 Eapt kits											
FY 2005 Eapt kits											-
TC Equip-Kits											
Total Installment											
Total Procurement Cost	17.4	1.9			0.8	0.0	9				20.8

						INDIV	IDUAL I	INDIVIDUAL MODIFICATION	ATION							Date		February 2000	2000	
MODIFICATION TITLE:	A2 OI	JS A	A2 ODS Applique 1-98-05-4539	1-98	-05-45	39														
MODELS OF SYSTEMS AFFECTED: M2A2ODS, M6A1 Linebacker, M7A1 BFIST	S AFFECT	ED: N	12A2OD	S, M6A	1 Lineba	acker, M	7A1 BFI	ST												
DESCRIPTION / JUSTIFICATION:	IFICATION	<u></u>																		
ODS Vehicle Applique: For Force XXI and the First Digitized Division, the Bradley Infantry vehicles will be integrated with the Army's Applique'(+) computer	ique: For	Force	XXIa	nd the	First [igitized	I Divisi	on, the	Bradle	y Infani	try vehic	lles will	be inte	grated	with th	e Army's	s Applic	(+),ent	compu	ter
system. The integration kit will include mounting the flat panel display, keyboard and CPU inside of the Bradley Turret and interfacing the vehicle systems	ration kit v	will inc	Slude n	ountin	g the f	at pan	el disple	ay, key	board a	and CP	U inside	of the	Bradle	/ Turre	tand in	terfacin	g the ve	ehicle s	ystems	ω.
(Bradley Eyesale Laser Rangelinder and Positorin/avigation System) to applique (1) to provide Laser Designation and Steel to capability. The bradley Infantry variant will also include an additional display in the hull for squad situational awareness and a turret mounted display for the Bradley commander.	Laser Kar I also incl	igeilir Ide a	uer arre n addit	ional d	isplay	vigation in the !	n Syste	nıyıo a squad s	pplique	nalawa	provide areness	anda	turret m	iounted	displa	y for the	Bradle	ey com	mande	ŗ.
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	TUS / MAJO	OR DE	VELOP	MENT N	AILEST	ONES:		PLANNED			AC	ACTUAL								
Preliminary Design Review:	iew:							7/95			-	26//								
Critical Design Review:								1/96				1/96								
LUT:								86/6				8/88								
MS III								03/01												,
Installation Schedule:																				
	Pr ≺		FY 1999	66		ŀ	FY 2000	8		}	FY 2001	-	1	<u>`</u>	202			FY 2003		
	Totals	F	2	3	4	-	2	3	4	-	2							7	9	4
Inputs														32 32	2 65			99	42	41
Outputs												31	31 3	32 32	2 65	65	65	99	45	41
		FY 2004	104			FY 2005	05			FY 2006	9		Œ	FY 2007			ပု		_	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	-	7	3		Complete			
Inputs	42	42	54	54	54	22	44	44	43	43	40	39		39						1102
Outputs	42	42	75	54	54	22	44	4	43	43	40	39	39 3	39						1102
METHOD OF IMPLEMENTATION:	ENTATION	1	Contractor Applied	or Applie		DMINIS	TRATIV	ADMINISTRATIVE LEADTIME	TIME:		6 Months	ıths	PRO	PRODUCTION LEADTIME:	N LEAD	TIME:	12	Months		
Contract Dates:		u.	FY 1999	7	Jan 99		Ĺ	FY 2000	弓	Jun 00			FY 2001	01	Jun 01					
Delivery Date:		u_	FY 1999	7	Jun 00		Ĺ	FY 2000	٦	Jun 01			FY 2001	201	Jun 02	-				
									l		l									

			NDIVIDU	AL MOD	INDIVIDUAL MODIFICATION	z					Date	a	Feb	February 2000	
MODIFICATION TITLE (Cont):	A2	A2 ODS Appliqu	lique 1-98-05-4539	539											
FINANCIAL PLAN: (\$ in Millions)	EV 1008	_													
	and Prior	FY 1999	FY 2000	FY	FY 2001	FY 2002	\vdash	FY 2003	FY.	FY 2004	FY 2005	90	2	TO	TOTAL
	Oty \$	Qty \$	Oty \$	ð	s	Oty \$	S S	\$ A	Qfy	\$	Qţ	€	Oty \$	ð	€9
RDT&E PROCUREMENT			7.0								157	7		1102	
ODS Installation B-Kits		50	97	193	10.0	60	2.0	186 10.9	135	0.6		; œ		787	47.8
ODS Nonrecurring IOTE Refurbishment				}											
Data Support Equipment		0.4													0.4
Other															
Interim Contractor Support															

NOTE: Applicatio	on costs are inclu	NOTE: Application costs are included in procurement unit cost	ent unit cost												
			wa**.												
Installation of Hardware											_				
FY 1998 & Prior Eqpt Kits															
FY 1999 Eqpt Kits															
FY 2000 Eqpt Kits															
FY 2001 Eqpt Kits															
FY 2003 Eapt - Kits															
FY 2004 Eqpt kits															
FY 2005 Eqpt kits															
TC Equip-Kits							\dashv					\dagger			
Total Installment					1		-								
Total Procurement Cost		10.0	2.7	7	16.6		7.8	16.0	0	11.9		11.9			/6.9

						INDI	/IDUAL	INDIVIDUAL MODIFICATION	FICATIC	Σ							Date		February 2000	, 2000	
MODIFICATION TITLE:	Battlefield Combat Id	eld C	omba	므	tificat	ion Sy	/stem	entification System 1-98-05-4546	05-45	46											
MODELS OF SYSTEMS AFFECTED: M2A2ODS	S AFFECTE	D: M2	AZODS																		
DESCRIPTION / JUSTIFICATION:	IFICATION:																				
The Battlefield Combat Identification System (BCIS) is a millimeter wave, question and answer system that will provide positive identification	ombat Ide	entific	ation	Syste	m (B(SIS) is	amil	limete	r wav	e, que	stion (and ar	swer	syste	m tha	t will p	rovide	positiv	e iden	tificatio	ou
of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. The BCIS is a designated Army Horizontal	d vehicles	to 1	inimiz	e batt	lefiek	l fratri	cide a	ınd en	hance	oo e	bat eff	ective	ness.	The E	SCIS i	s a de	signate	d Arm	ıy Horiz	ontal	
rechnology integration (n.r.) intrauve.	grallon (n	<u>=</u> (=)	IIIallyt	15																	

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	TUS / MAJOF	3 DEVI	FLOPM	ENT M	ILEST(ONES:															
MSII			4Q93																		
CDR			2094																		
PPQT/LUT			1095	ťΣ																	
TF XXI Demo			3097																		
NATO Demo			4097	76																	
LRIP IPR			2Q99	6																	
Installation Schedule:																					
	Pr Yr	}	FY 1999	6	+	-	FY 2000	- 1			FY 2001	- 1			בן	ا ا			FY 2003		
	Totals	-	7	9	4	-	7	8	4	٣	7	e	4					-	2	3	4
Inputs										7	7	ω ι	8					ę ;	2 9	9 9	ę ;
Outputs		-	\dashv		\dashv						7	1	»	×	10	10	JOL T	2	01	2	
				-														Ī			
	_	FY 2004	- 1	+	-	FY 2005	ı	1	Ī		FY 2006			<u>`</u>	à[L		0		_	otals
	-	7	3	4	ᅱ	7	8	4		2	3	4		2	m m	4		Complete			
Inputs		10	9	9	S,	2	ا <u>ب</u>	ı,	4 1	4	•										178
Outputs	10	위	9	힐	9	2	2	2	2	4	4							7			1/8
METHOD OF IMPLEMENTATION:	ENTATION:		Cntr/Depot			DMINI	STRATI	ADMINISTRATIVE LEADTIME	DTIME	:	က	Months		PROD	UCTIO	PRODUCTION LEADTIME:	IIWE:	12	Months		
Contract Dates:		}	FY 1999	¥ Z	∢ :			FY 2000		Jan 00				FY 2001	Ξ:	Jan 01					
Delivery Date:		Ŧ	FY 1999	Z	ΑN			FY 2000		Jan 01				FY 2001	<u> </u>	Jan UZ					

			NDIVIDUA	INDIVIDUAL MODIFICATION	NOI					Date	Februs	February 2000	
MODIFICATION TITLE (Cont):	Bê	attlefield Com	Battlefield Combat Identification System 1-98-05-4546	on System	1-98-05-45	.46							
FINANCIAL PLAN: (\$ in Millions)	EV 1008	_											· · · · · ·
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	\vdash	FY 2003	FY 2004	_	FY 2005	70	TOTAL	
	Oty \$	Qty \$	Oty \$	Qty \$	ģ	თ \$	Oty \$	Qty \$	Н	Qty \$	¢ ¢¢	âţ	69
RDT&E PROCUREMENT													
BCIS Kits			30 1.9	40	2.6 40	5.6	40 2.6	50	6.	8	0.5	178	11.6
				-									
Equipment Norgentring													
Engineering Change Orders													
Data													
Training Equipment													
Other													
Interim Contractor Support													.,
	:	·	; ;										
	NOTE: Application costs are	tion costs are inc 	included in procurement unit cost	nent unit cost									
Installation of Hardware				-									
FY 1998 & Prior Eqpt Kits													
FY 2000 Eqpt Nits													
FY 2002 Eqpt kits													
FY 2003 Eqpt kits													
FY 2004 Eqpt kits					- 4								
FY 2005 Eqpt kits											•		
TC Equip-Kits													
Total Installment													
Total Procurement Cost			1.9		2.6	2.6	2.6		1.3	0	0.5		11.6

		INDIVIDUAL MODIFICATION	MODIF	CATIO	_						Date		February 2000	000	T
MODIFICATION TITLE: Armor tiles 1-84-05-4038															
MODELS OF SYSTEMS AFFECTED: M2A2 (IFV) / M3A2 (CFV)	CFV)														
DESCRIPTION / JUSTIFICATION:															
Armor Tiles are one of the High Survivability improvements to the BFVS. The tiles provide increased armor protection for shaped charge	improve	ments	to the	BFVS.	The ti	les pr	ovide i	ncreas	ed am	or pro	tection	n for sha	ped cha	ge	
threats, including hand held heat and other classes of warheads as specified in the BFVS material need area. There are 5 configurations of	asses o	f warhe	ads as	speci	fied in	the Bl	FVS rr	naterial of additi	need a	area. 1 unds s	here a	are 5 cor telv appr	opriated opriated	ns of for	
Armor Tile.	:	2 2 3 -	, , , ,	, , ,) }	5 } ;						-			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES	ESTONES														
PLAN		ACC	ACCOMPLISHED	旦.											
			3090	_											
Contractor I est and Evaluation: Development Test and Evaluation: N/A															
tion:	<i>-</i> ~		2003	2											
TDP Available N/A			,	2					÷						
Installation Schedule:															
Pr Yr FY 1999		FY 2000	000			FY 2001	2			FY 2002			FY 2003	03	
Totals 1 2 3	1	7	3	4	1	2	က	4	-	7	က	4	2	8	4
Inputs															
Culpuis														_	
FY 2004	FY	FY 2005			FY 2006	90			FY 2007		Н	To		Totals	SE
1 2 3 4	1 2	3	4	7	2	3	4	1	2	3	4	Complete			
Inputs												:		ļ	
METHOD OF IMPLEMENTATION: Troop Installed	ADMIN	ADMINISTRATIVE LEADTIME:	VE LEA	DTIME		9	Months	PR	CODUCT	PRODUCTION LEADTIME:	ADTIM	9 ::	Months		
	66	_	FY 2000					₹	FY 2001						
Delivery Date: FY 1999			FY 2000					FY	FY 2001						

				NDIVIDU	INDIVIDUAL MODIFICATION	NO			Date	Februs	February 2000	
MODIFICATION TITLE (Cont):	Ari	Armor tiles 1-84-05-4038	84-05	4038								
FINANCIAL PLAN: (\$ in Millions)	FY 1998	-										
	and Prior	FY 1999	-	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	700	7	TOTAL	
	Qty \$	Qty \$	ğ	\$ A	Qfy \$	Oty \$	Oty \$	Qty \$	Oty \$	Qty \$	ð	€
RDT&E	4.0											0.4
PROCUREMENT			···									
Kit Quantity												
Installation Kits	246 56.5	20	14.0	70 19.0							372	89.5
Installation Kits, Nonrecurring												
Equipment												
Equipment, Nonrecurring												
Engineering Change Orders	0.5											0.5
Data												
Training Equipment												
Support Equipment												
Other	15.1		2.7	5.6	(0							23.4
Interim Contractor Support												
							·					
									-14-11-1-1-1			
Installation of Hardware												
FY 1998 & Prior Eqpt Kits					•							
FY 1999 Eqpt Kits												
FY 2000 Eqpt Kits												
FY 2001 Eqpt Kits												·
FY 2002 Eqpt kits												
FY 2003 Eqpt kits												
FY 2004 Eqpt kits												
FY 2005 Eqpt kits												
TC Equip-Kits												
Total Installment			-									
Total Procurement Cost	72.1	16.	6.7	24.6	2							113.5

			INDIX	DUAL N	INDIVIDUAL MODIFICATION	NOIL							Date		February 2000	000	T
MODIFICATION TITLE: M2A2O	M2A2ODS to M3A2ODS Conversion 1-99-05-4564	S Con	version	. 1-99	-05-456	4					1						
MODELS OF SYSTEMS AFFECTED: M2A2ODS, M3A2ODS): M2A2ODS, M3A2	sao															
DESCRIPTION / JUSTIFICATION:																	
This modification will reconfigure M2A2ODS vehicles into the M3A2ODS configuration to incude overhaul and restowage. This is required hecause of the realignment of Bradley assets between the Infantry Fighting Vehicle (IFV) and the Cavalry Fighting Vehicle (CFV) due to the	figure M2A2OD	S veh	icles ii ween	nto the	M3A2	ODS capting	configuation Vehic	rration cle (IF	to ind V) and	ude o	verhau avalry	l and r Fightii	estowa g Vehi	ge. This cle (CF	s is requ :V) due	uired to the	
pure fleet concept contained in the recently approved Armored Systems Modernization Plan.	d in the recently	appro	ved A	rmore	d Syste	ms M	oderni	zation	Plan.))	•			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT N/A		MILESTONES:	NES:														
Installation Schedule:																	
PrYr	FY 1999	_		FY 2000				FY 2001			1	FY 2002			FY 2003	33	
Totals	1 2 3	4	F	2	8	4	-	7	3	4					7 7	က	4
Inputs Outputs				-					,		0	8 2	24 24 24 24	24	24	24	3
<u> </u>	FY 2004		FY 2005	5			FY 2006				FY 2007			ပ		Tot	Totals
-	2 3 4	-	2	3	4	-	7	က	4	=	7	9	4	Complete			
Inputs Outputs																	131
METHOD OF IMPLEMENTATION:	Contractor	₹	MINIS	RATIV	ADMINISTRATIVE LEADTIME:	ME		6 Months	ıths	PR	DOUCTI	PRODUCTION LEADTIME:	OTIME:	12	Months		
Contract Dates:	FY 1999 N/A	∢ ≤		፫ ፲	FY 2000	A X				<u>}</u>	FY 2001 FY 2001	Mar 01 Mar 02	£ 0				
Delivery Date:					2007				l				1				

			NDIVIDUA	INDIVIDUAL MODIFICATION	2			Date	Februa	February 2000	
MODIFICATION TITLE (Cont):	MS	M2A2ODS to M3	3A2ODS Con	M3A2ODS Conversion 1-99-05-4564)5-4564						
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	77	TOTAL	
	Oty \$	\$ AO	Oty \$	Oty \$	Oty \$	Qfy \$	Qty \$	Oty &	Qty \$	φ	s
RDT&E											
PROCUREMENT										,	r C
Kit Quantity				69 17.1	62 18.0					13.	35.U
Installation Kits											
Installation Kits, Nonrecurring											
Equipment	118										
Equipment, Nonrecurring											
Engineering Change Orders											
Data								· · ·			
Training Equipment											
Support Equipment											
Other											
Interim Contractor Support											
	NOTE: Applicat	NOTE: Application costs are included in procurement unit cost	uded in procuren	nent unit cost	_ -	-14					
Installation of Hardware											
FY 1998 & Prior Eqpt Kits											
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits											
FY 2001 Eqpt Kits			,								
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits											
FY 2005 Eqpt kits											
TC Equip-Kits											
Total Installment											8
Total Procurement Cost				17.1	18.0						35.0

Exhibit P-40,	Justification Sheet
	Budget Item

								Date:				
		Exhibit P-40, Budget I		tem Justification Sheet	ition Sheet				10 11	February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	MBT VEHS / 1 / Tra	scked Combat Vehick	se				HOWITZER, MED 5	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	(MOD) (GA0400)		
Program Elements for Code B Items:	15:			Code:	Other Related Program Elements:	am Elements:			:			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1223.7	100.4	74.0	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1487.4
Less PY Adv Proc	16.3											16.3
Plus CY Adv Proc												
Net Proc (P-1)	1207.4	100.4	74.0	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1471.1
Initial Spares	5.9	6.4	0.7									12.9
Total Proc Cost	1213.2	106.8	74.6	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0:0	1484.0
Fiyaway U/C												
Wpn Sys Proc U/C												

Funds the procurement of approved modifications to the 155MM Self-Propelled Howitzer. The fiscal program identified herein completes production and fielding of the M109A6 Paladin Howitzer DESCRIPTION

COOPERATIVE AGREEMENTS:

program incorporated already developed items, together with items which were developed under contract, into prototype M109s. DA and MOD supplied their own M109s Division) won a competitive multiyear procurement contract for full scale production of remaining Paladin requirements during FY1993-1998 programs. A FY00 contract Scale Production Decision. The system developer, BMY, a Division of Harsco Corporation, was awarded a full scale engineering development contract in October 1985, Ministry of Defense (MOD), agreed to cooperate on a joint development project to improve the M109 Series 155MM Self-Propelled Howitzer in November 1985. This production phase and has been named the M109A6 Paladin. The US/Israeli Joint Development Agreement has expired effective with the Paladin Milestone III, Full The Government of the United States of America, as represented by the Department of the Army (DA), and the Government of Israel (GOI), as represented by the and a low rate production contract in September 1990. In April 1993, FMC Corporation (now known as United Defense, Limited Partnership, Paladin Production for prototype work. GOI funding for its share of the program was \$30.7 million over Fiscal Years (FY) 1986-1990. The US Howitzer is currently in the full scale is expected in May 2000 for a limited quantity of systems.

Produced to the part of the	Exhibit P.	Exhibit P-40M Budget Ife	Item Justification Sheet	ation Sheet			Date		February 2000		
Proportise up or views a Trico cust Vieries 1 i Transed Conset Vieries 2 i					P-1 Item Nomendatu						
Classification Fiscal Years Cose B limes Cose B limes Cose B limes Cose B limes Fiscal Years Fi	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1.	1 / Tracked Combat Vehicle	\$				HOWITZER, MED	SP FT 155MM M109	A6 (MOD) (GA0400)		
viton Fiscal Years Fiscal Years FV 1998 FV 2000 FV 2002 FV 2003 FV 2004 FV 2005 TC	Program Elements for Code B items			Other Related Progra	am Elements						
Classification FY 1998 FY 2000 FY 2001 FY 2001 FY 2005 FY 2005 TC FY 1000 FY 2001 FY 2005 TC FY 1000 FY 2001 FY 2005 TC FY 1000 FY 2001 FY 2005 TC FY 1000 FY 2001 FY 2005 TC FY 2005	Description	Fiscal Years									
Figure Frogram 1,378.3 11.2 26.8 8.1 5.3 13.9 20.1 4.0 0.0 5-1002 Unclassified 3.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5-1003 Unclassified 1,381.7 11.2 26.8 8.1 5.3 13.9 20.1 4.0 0.0		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Nuorosarbon (GFC Eliminaton) 3,4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5-1003 Unclassified 3,4 0.0 11,2 26.8 8.1 5.3 13.9 20.1 4.0 0.0 1,47	Howitzer Improvement Program 1-81-05-1002 Unclassified	1,378.3	11.2			5.3				0.0	1,467.7
1,381.7 11.2 26.8 8.1 5.3 13.9 20.1 4.0 0.0	Chlorofluorocarbon (CFC Elimination) 1-96-05-1003 Unclassified	3.4	0.0	0.0		0.0				0.0	3.4
	Totals	1,381.7	11.2			5.3				0.0	1,471.1

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

February 2000

Date

INDIVIDUAL MODIFICATION

Howitzer Improvement Program 1-81-05-1002

AODELS OF SYSTEMS AFFECTED: Howitzer, MED SP 155MM M109 Ser (MOD)

MODIFICATION TITLE:

SESCRIPTION / JUSTIFICATION

Installation Schedule:									-												T
	Pr Yr		FY 1999	စ္တ		<u>.</u>	FY 2000			ш	FY 2001			_	FY 2002	اي			FY 2003	2	
	Totals	-	2	8	4	-	2	3	4	-	2	3	4	-	2	6	4	-	7	3	4
Inputs	950	45	37	23					-				_	2	5						
Sinding	25																				
		FY 2004	¥	-		FY 2005		_		FY 2006				FY 2007				2		Totals	s
	-	-	~	4	-	2	3	4	-	2	3	4	-	7	က	4	Complete	plete			
	1	1	,	\dagger	1		-	L			_			-	-	_					957
Inputs																					957
METHOD OF IMPLEMENTATION:	ENTATIO	ž	1		Ą	MINISTE	XTIVE	ADMINISTRATIVE LEADTIME:	₩Ë	2	24 Months	las las	H.	DODO	ION LI	PRODUCTION LEADTIME:		24 Months	onths		
Contract Dates:			FY 1999	屲	Enter Date		Ŧ	FY 2000	Enge	Enter Date			占	FY 2001	ш	Enter Date	•				
Delivery Date:		Ĺ	FY 1999	ш	Enter Date		ᇫ	FY 2000	Ent	Enter Date			₹	FY 2001	ا ش	Enter Date					

			INDIAIO	INDIVIDUAL MODIFICATION	Z O			Date	רשטות	regrany 2000	7
MODIFICATION TITLE (Cont):	H	Howitzer Impro	vement Prog	wement Program 1-81-05-1002	1002						
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL	T
	Oth S	Oty S	\$ Apo	\$ cty	\$ AD	Qty \$	Oty \$	Qty \$	Oty \$	à	€
RDT&E				2.5	<u>L</u>						156.5
PROCUREMENT										Į	
Kit Quantity	950		۷							, , ,	
Equipment	772.6		_	11.1	0.1	0:0					90.9
Equipment, Nonrecurring	244.1		1.2	0.0							245.3
Engineering Change Orders	115.0			ıç.						_	0.01.0
Matrix Personnel Support	86.6										0.00
Data	13.1		6								13.4
Training Equipment	14.1										14.1
Vehiclar Intercom System	10.2			1.1							
Other	5.1										2.5
Project Mgmt Admin	18.0		0.7		0.6 0.0						4.5.4
Fielding	25.7				1.9						32.5
Battlefield Combat ID System				0.0) (
MACS Stowage and Handling						2.0					0.7
Battery Guard System				·	0.0						
Laser Ignition System						5.9					7 6
Fire Control Upgrade				o 	0.1 5.0		8.6 8.6	0.4			7.4.7
Installation of Hardware			_								
EV 1998 & Prior Eapt Kits	950 73.8									920	73.8
FY 1999 Eapt Kits											
EV 2000 Eapt Kits			_	2.5						7	2.5
EV 2001 Fant Kits											
FY 2002 Fapt kits											
FY 2003 Eapt kits								****			
FY 2004 Equt kits			-								
FY 2005 Eapt kits											
TC Equip-Kits										ı	
Total Installment	950 73.8	8	7							957	76.3
Total Procurement Cost	1378.3	3 11	.2	26.8	8.1 5.3	3 13.9	20.1	4.0		14	146/./

			INDIVIDU,	INDIVIDUAL MODIFICATION	N			Date	Februs	February 2000	T
MODIFICATION TITLE (Cont):	C	lorofluorocai	bon (CFC Eli	Chlorofluorocarbon (CFC Elimination) 1-96-05-1003	-05-1003						
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	7 4000	EV 2000	EV 2001	EV 2002	FY 2003	FY 2004	FY 2005	TC _	TOTAL	
	Oty St	Oty \$	\$ \$	Oty \$	Qty \$	Oty \$	Qty \$	Qty \$	Qty \$	δţ	€9
RDT&E PROCUREMENT Kit Quantity Hardware Testing	950 2.0 0.2							3/2		950	0.2
Project Management											
						1,14					
		·								a	
Installation of Hardware										i	,
FY 1998 & Prior Eqpt Kits	950 1.3	~						, teas		ncs	
FY 1999 Eqpt Kits			-								
FY 2000 Eqpt – Kits											
FY 2001 Eqpt Kits											
FY 2003 Eqpt – kits										***********	
FY 2004 Eqpt kits											
FY 2005 Eqpt kits											
TC Equip-Kits											,
Total Installment	950 1.3	3								ncs ncs	<u> </u>
Total Procurement Cost	3.4	4									4.0

Exhibit P-40,	Item . Instification Sheet
	<u> </u>
	3 Indust

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	scked Combat Vehic.	les				FAAS	FAASV PIP TO FLEET (GA8010)	8010)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
				∢				;				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	73.0	23.5	1.8	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0:0	130.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	73.0	23.5	1.8	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0.0	130.6
Initial Spares												
Total Proc Cost	73.0	23.5	1.8	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0.0	130.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Funds the procurement of approved modifications to the M992 and M992A1 Field Artillery Ammunition Support Vehicle.

Programment in Country West Trace and Consistent of National Program Elements Progr	Exhibit P-4	Exhibit P-40M Budget Ite	m Justifica	Item Justification Sheet			Date		February 2000		
Code Code	Appropriation / Budget Activity/Serial No.	Tracked Combat Vehicles	-		P-1 Item Nomendatur	gs.	FAASV	PIP TO FLEET (GA	8010)		
Fiscal Years Fiscal Years Fy 2000 Fy 2000 Fy 2000 Fy 2000 Fy 2005 TC To To To To To To To	Program Elements for Code B Items		Code	Other Related Progra	am Elements						
Fiscal Years			(1			
(Conversion) FY 1998 FY 2000 FY 2000 FY 2002 FY 2003 F	Description	Fiscal Years				0000	2000	V 2004	EV 2005	<u>ال</u> 	Total
Siffed 95.4 2.8 0.2 0.0 18.4 2.1 3.9 0.1 0.0 siffed 2.8 0.3 0.0 0.0 0.0 0.0 4.5 0.0 0.0 0.0 siffed 3.1 0.2 0.0 18.4 2.1 8.4 0.1 0.0		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FT 2004	r 1 2003	2	- Ora
isified 95.4 2.8 0.2 0.0 18.4 2.1 5.9 0.1 0.0 0.0 isified 2.8 0.3 0.0 0.0 0.0 0.0 4.5 0.0 0.0 0.0 98.2 3.1 0.2 0.0 18.4 2.1 8.4 0.1 0.0	FAASV Materiel Change (A2 Conversion)					,		C		c	122 0
98.2 3.1 0.2 0.0 18.4 2.1 8.4 0.1 0.0		95.4	2.8			18.4		9. 9.		9.	144.0
sified 2.8 0.3 0.0 0.0 0.0 4.5 0.0 0.0 0.0 89.2 3.1 0.2 0.0 18.4 2.1 8.4 0.1 0.0	FAASV Halon Replacement									(1
98.2 3.1 0.2 0.0 18.4 2.1 8.4 0.1 0.0	1-94-05-4477 Unclassified	2.8	0.3			0.0				0.0	0./
98.2 3.1 0.2 0.0 18.4 2.1 0.5						,		0		c	130 6
	Totals	98.2	3.1			18. 4.		t. O		2	

			INDIVI	OUAL M	INDIVIDUAL MODIFICATION	TION						۵	Date		February 2000	000	
MODIFICATION TITLE: FAASV N	FAASV Materiel Change (A2 Conversion) 1-93-05-4457	nge (A2	Conve	'sion'	-93-05	-4457											
MODELS OF SYSTEMS AFFECTED: FAASV M992A0 and M992A1): FAASV M992	10 and M99	12A1														
DESCRIPTION / JUSTIFICATION:																	
The FAASV materiel change encompasses the previously approved FAASV HELP (Howitzer Extended Life Program) and Survivability	e encompas	ses the p	revious	sly app	roved	FAAS	V HELF	How	itzer E	xtende	d Life	Progra	am) and	d Surv	ivabilit	y ommor	Ę
chassis. These improvements include the	ents include t	ne Low Heat Rejection/Cold Start Engine, improved XTG 411-4 Transmission, Reliability,	leat Re	jection	/Cold	Start E	ngine,	improv	ed XT	G 411	4 Trar	smiss	on, Re	əliabilit	y, and		
Maintainability (RAM) improvements to the cooling, electrical, and suspension systems, relocated heater and hydraulic reservoir, stronger fuel	ovements to t	he coolir	ıg, elec	trical,	and su	sbensi	on sys	tems, r	elocat	ed hea	ter an	d hydra	aulic re	servoi	r, stror	iger fu	<u>le</u>
cell, and modifications to provide interoperability with the M109A6 Paladin Howitzer. The enhancements provided by the materiel charge will parmit the FAASV crew to operate in the same environment as the M109A6 Paladin. This means the operation and maintenance features	rovide interop	erability the sam	with th	e M10	9A6 Pa It as th	ladın e M10	HOWITZ 19A6 P.	er. In aladin.	e enna This I	ancem neans	ents pr the op	ovided	יוט עסו and r	e mate nainte	nance	ange feature	es
will be common and the FAASV cold starting and RAM features will be comparable. The modifications to the rear door conveyor and	ASV cold sta	rting and	RAM	feature	s will t	e con	parabl	e. The	modii	ication	s to th	e rear	door c	onveyo	or and	7	
propellant racks will improve M109A6 supportability. Funding against Depot Maintenance Pre-Modification in FY99 pays the inspect and Repair Only As Necessary (IROAN) upgrade effort for the completion of the European Conversion Program.	e M109A6 sı (IROAN) upg	ipportability. Funding against Depot Maintenance Pre-Modification is rade effort for the completion of the European Conversion Program.	lity. Fu	inding he con	agains npletior	t Depo	ot Main Europ	tenanc vean Co	e Pre-	Modifficial Project Pr	ation i ogram.	Š ⊥ ⊏	e pays	me in	spect s	DE .	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	DEVELOPMEN	T MILESTONES	NES:														
Preliminary Design Review - 1QFY91	- 1QFY91			6W	92A2 F	irst Ur	nit Equ	M992A2 First Unit Equipped - 1QFY95	1QFY	95							
Critical Design Review - 4QFY91	FY91						•										
Contractor Test and Evaluation - 2QFY93	tion - 2QFY9	3															
IPR Production Design - 3QF Y93 TDP Available - 3QFY93	ir Y93																
M992A2 First Delivery - 3QFY93	FY93																
Installation Schedule:	FY 1999			FY 2000		_	16	FY 2001			FY 2002	902			FY 2003	33	
Totals	1	3 4	-	2	3	4	1	2 3	4		2	3	4	H	2	3	4
Inputs 757 18 Outputs 732 28	18 14 28 24	2															
							9000		L	Š	EV 2007			15		Ĕ	Totale
	FY 2004	F	2 2003	<u>ر</u>	4	-	2 2000	3 4		L	(F)	4	S	Complete		5	}
Inputs																	789
Outputs				-		_		\neg	╛	ļ							789
METHOD OF IMPLEMENTATION:		4	LSINIMO	IRATIVE	ADMINISTRATIVE LEADTIME:	ΜË	24	Months	S	PROD	NOLLON .	PRODUCTION LEADTIME:	ښ Σ.	24 ⊠	Months		
Contract Dates:	FY 1999 FY 1999	Enter Date	o a	<u>ት</u>	FY 2000 FY 2000	Ente	Enter Date Enter Date			FY 2001 FY 2001		Enter Date Enter Date	වී වී				
Delivery Date.	2021													l			

74 / 00 4 7 1	7	AUDIVIDUA CA/ CAG	INDIVIDUAL MODIFICATION	JN 1-03-05-4457			e e e e e e e e e e e e e e e e e e e		
ğ	<u>ਤ</u>	lange (A2	Conversion)	FAASV Materiel Change (AZ Conversion) 1-93-03-4457					į
							1000	i C	TOT
FY 1999		FY 2000	FY 2001 Otv \$	FY 2002 Otv \$	FY 2003 Oty \$	City \$	Cty \$	Qty 5	Qty
	-								
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0.8 8.				18.0					
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				INDIVIDO	INDIVIDUAL MODIFICATION	NC			Date	Februa	February 2000	П
MODIFICATION TITLE (Cont):		FAAS	FAASV Halon F	Replacement	Replacement 1-94-05-4477							T
FINANCIAL PLAN: (\$ in Millions)		 [
	FY 1998 and Prior	<u></u>	FY 1999	FY 2000	FY 2001	FY 2002	120	720	720	2	OTAL	П
	Qty \$	+	Oty \$	αty \$	Oty \$	Qfy \$	\$ Oth	Oty \$	\$ Ayo	Ž	GIZ PIZ	Τ
RDT&E PROCUREMENT Kit A Quantity Installation Kits A Engineering Support Test Installation Kits B	927	0.2						3.5			927	1.0 0.2 3.5 3.5
Installation of Hardware	777	-									111	7.
FY 1999 Eqpt Kits			150 0	6.							150	 0.
FY 2000 Eqpt Kits				***	<i>a</i> .							
FY 2001 Eqpt Kits					-10.				A.11.			
FY 2003 Eqpt kits								*				7
FY 2004 Eqpt kits								<u>:</u>	<u></u>			:
FY 2005 Eqpt kits												
TC Equip-Kits	777	-	150 0	6				1.1	-		927	2.5
lotal Installment		- a		200				4.5	2			7.6
וסנמו בוסכתובווופוור כככי		1										ĺ

								Date:				
		Exhibit P-40, Budget	0, Budget It	Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	.6.					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	cked Combat Vehicl	Se)				IMPROVED RECO	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	18 MOD) (GA0570)		
Program Elements for Code B Items:	ıs:			Code:	Other Related Program Elements:	am Elements:						
			-	∢								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
96	52	24	10	16		24	21		22	24		193
Proc Gly	110 5	55.5	32.0	53.6		68.4	67.8		73.1	74.2		544.1
Gross Cost	2.5.	200										
Less PY Adv Proc												
Dine CV Adv Proc												
Col Land to con a	2,0	27.75	32.0	53.6		68.4	67.8		73.1	74.2		544.1
Net Proc (P-1)	9.5	2.00	2:30	255			0,0		20	3.0		15.1
Initial Spares	1.5	2.0				2.8	6.0		2.2			0 000
Total Proc Cost	121.0	57.5	32.0	53.6		71.2	70.6		76.0	77.2		238.5
Fivaway U/C												
When Sve Droc I I/C	2.3	2.3	3.2	3.3		2.8	3.2		3.3	3.1		2.8
While oys Flor O'C	2											1

DESCRIPTION: The M88A2 HERCULES is an armored, full-tracked, diesel-powered, recovery vehicle configured with an A-frame boom, three winches, and a spade. The boom has a 35 ton lift capacity and the main winch has a constant pull capacity of 70 tons. The hull is armored for protection against small arms fire, artillery fragments and anti-personnel mines. The vehicle mounts a caliber .50 machine gun for self-protection. The M88A2 HERCULES is capable of performing recovery, evacuation, and limited repair of the main battle tank.

horsepower and braking to safely support the recovery of the Abrams fleet. Improvements incorporated into HERCULES fix these operational shortcomings. In addition, horsepower, braking/steering, winch, lift and suspension characteristics which will allow the safe recovery of Abrams tanks. The fielded M88A1 lacks the necessary JUSTIFICATION: The FY01 funding will be used to produce 24 M88A2 HERCULES utilizing the existing M88A1 chassis as the base vehicle and increasing the the increased winching and lifting capability accommodate all Abrams tank models including the 70-ton M1A2. Without the improvements incorporated in the HERCULES, units must use two or three recovery vehicles (or another Abrams to tow a disabled tank) to perform the spectrum of recovery missions.

MTCV Cost Analysis Production Producti	Exhibit P-5, Weapon	ľ	Appropriation/ Budget Activity/Serial No:	dget Activity/	Serial No:		P-1 Line Item	P-1 Line Item Nomenclature:	0010		Weapon System Type:		Date: Febr	February 2000
Column C	WTCV Cost Analysis		PROCUREMEN VEHS / 1 / T	T OF WPNS racked Comb	& TRKD CMBT at Vehicles		IMPROVE	MOD) (GA0570	ELICLE (MOO					2007
Column C		-		FY 98			FY 99			FY 00			FY 01	
Factor A Scoo Each Scoo Scool Each Scoo Scool Sc		8	TotalCost	ģ	UnitCost	TotalCost	οţ	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	ð	UnitCost
ractor A 30648 16 1916 2098 '-16 VAR 4402 2038 3038 2203 45 2562 345 1007 6342 6quirements 63588			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
4402 4402 4402 2203 45 7582 7582 7582 7583 8345 845 7588 853568		⋖				30648	16	1916				47936	24	1997
4402 Sore 3036 OGA 45 2262 345 Fremodification 1007 6342 6342 6342 6348 53588	2. Vehicle Manufacturing - GFE					2098	*16	VAR				3002	*24	VAR
3036 2203 45 2562 345 1007 5342 8quirements 1900 5358	3. Contractor Engineering					4402						3269		
3036 2203 45 2562 345 1007 6342 36quirements 1900 53588	4. Engineering Change Orders				***			-				1460	,	
2503 45 2562 345 1007 5342 Aequirements 35358	5. Project Management - Core					3036						1665		
145 146 147 148 149 149 149 149 149 149 149 149 149 149	6. Project Management - OGA					2203	·					1167		•
2562 345 346 1007 strofit (Block I &II ECP's) 6342 6342 6342 6342 6342 6342 6342 6342	7. Transportation					45						59		
Maintenance - Premodification 1007 1007 1007 1007 1007 Maintenance Work Requirements 53388 53388	8. Fielding					2562						1136		
5342	9. Testing					345						751		
rements 1900 53588 53588	10. Depot Maintenance - Premodification					1007						2092		
23.56.8	11. Fleet Retrofit (Block I &II ECP's)					5342								
23588	12. Track and Cleat ECP											5848		
23.58	13. Depot Maintenance Work Requirements					1900								
	TOTAL					53588						68385		
			·											
		-												

									Date:		
	Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning			į		Feb	February 2000	
Appropriation / Bud PROCUREMEN	BT VEHS / 1		Weapon System Type:	т Туре:		P-1 Line Item Nomenclature: IMPROVED RECO	Vomenclature:	em Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)) (GOM 88M)	3A0570)	
WBS Cost Elements:	Combat Vahicles	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First Delivery	Date of First Delivery	QTY	Unit Cost	Specs C Avail R Now? /	Date Ri Revsn Avail	RFP Issue Date
1. Vehicle Man FY 99	risca reas 1. Vehicle Manufacturing - Contractor FY 99	UDLP (1)		ТАСОМ	Nov-98		16	1916	YES		Sep 98
FY 01		UDLP (1)	SS-FFP	TACOM	(£) Nov-00 (3)	Feb-02	24	1997	YES	<u> </u>	Sep 00
2. Vehicle Mar FY 99 FY 01	2. Vehicle Manufacturing - GFE FY 99 FY 01	Various Various	Reqn/PO Reqn/PO	Various Various	Various Various		16	VAR	YES		
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REMARKS:	(1) UDLP - United Defense Limited Partnership (2) A contract was awarded November 1998 for Long Lead Material to accelerate the FY99 deliveries and mitigate a production break. Production contract was awarded March 1999.	lership 398 for Long Lead Material to accelera	ate the FY99	deliveries and mitigate a produ	ction break	. Productio	n contract v	vas awarded N	farch 1999	o di	
	(3) A contract will be awarded November 2000 for Long Lead Material to accelerate the FY01followed by a production contract award February 2001.	r 2000 for Long Lead Material to accel	erate the FY	'01followed by a production con	itract award	February 2	2001.				

EV 100 / 101 BUDGET PRODUCTION SCHEDULE	Ď	CTION S	CHEL	ULE			<u>. </u>	<u> </u>		P-1 Item Nomendature. IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	10 REG	OVER	∵ VE	1CLE	(M88)	(aop	GA05	(02								Febru	February 2000	8		
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Exhibit P-40,	Justification Sheet
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		Exhibit P-40, Budget I		tem Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	. 9 .					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	acked Combat Vehic	ies				BREACH	BREACHER SYSTEM (MOD) (GZ3200)	(6Z3200)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:						
	0604649A	349A		æ								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Otv												
Gross Cost	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	19.5
l ess PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	00	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	19.5
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Total Drac Cost	00	00	0.0	0.0	19.5	0.0	0.0	0.0	0:0	0.0	0.0	19.5
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with significantly improved mission effectiveness and crew/vehicle survivability while clearing minefields and removing complex natural and man-made obstacles at the DESCRIPTION: The Grizzly (M1 Breacher) is developed around the M-1 Abrams tank chassis and integrated a versatile/survivable full-width mine clearing blade with automatic depth control, a power driven arm to reduce complex obstacles, and an armored commander's control station. The Grizzly provides the Combat Engineer forward edge of the battlefield. The Grizzly is capable of moving with, and as survivable as, the force it supports. It provides the maneuver force with the freedom required to successfully execute assigned ground combat mission requirements.

maneuver dominance on the battlefield. The Grizzly, a single, survivable breach platform, gives the Combat Engineer a capability that does not currently exist in today's JUSTIFICATION: During Operation Desert Storm, it became evident that the Army did not have one vehicle capable of performing an in-stride, complex linear obstacle complex obstacle breaching operations. All existing counterobstacle and countermine systems are single purpose only, and lack the mobility, protection and agility of the current maneuver force. The Grizzly possesses a complex obstacle reducing capability, with mobility, protection, and agility comparable to the M-1 Abrams Tank. breach. The Grizzly was to provide a critical resource for executing in-stride breaches, supporting the Force XXI maneuver commander's goals of information and

The Grizzly program has been terminated. The decision to terminate the program was based on an assessment of affordability and acceptance of operational risk against higher Army transformation priorities.

Exhibit P-5, Weapon	<u> </u>	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C	udget Activity	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT		P-1 Line lier BREACH	P-1 LINE ITEM NOMENCIATURE: BREACHER SYSTEM (MOD) (GZ3200)	(GZ3200)		weapon cystem type.		Febr	February 2000
1600	1	VEHS / 1 /	VEHS / 1 / Tracked Combat Vehicles	bat Vehicles								2	
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1. Vehicle Manufacturing - Contractor	മ								-				
2. Vehicle Manufacturing - ANAD													
3. Vehicle Manufacturing - GFE													
4. System Technical Support													
5. Engineering Change Orders													
6. Project Management Admin - Core													
7. Project Management Admin - OGA						···			, -				
8. System Test & Evaluation													
9. Initial Production Facilities							-	19513					
10. Fielding													
11. Interim Transportation													
12. Support Equipment													
TOTAL								19513					
Note: FY00 program is being reassessed													٠
in light of the Army's transformation.													
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								Date:		
Exhibit P.	Exhibit P-5a, Budget Procurement History and Planning	History an	d Planning					Fe	February 2000	0
Appropriation / Budget Activity/Serial No:		Weapon System Type:	Туре:		P-1 Line Item Nomenclature:	omenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked						BREAC	BREACHER SYSTEM (MOD) (GZ3200)	D) (GZ3200)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	αTY	Unit Cost	Specs Avail F	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000		Avail	
1. Initial Production Facilities*								4- V4- 4- C- C- C- C- C- C- C- C- C- C- C- C- C-	AND CONTRACT OF THE CONTRACT O	
REMARKS: Note: Funding planned for Initial Production Facilities in FY2000 will be adjusted to reflect the Army's transformation.	ion Facilities in FY2000 will be adjuste	ed to reflect the	e Army's transformation.							

								Date:				
		Exhibit P-40, Budget	0, Budget It	Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehi	CMBT VEHS / 1 / Tra	acked Combat Vehic	ides				HEAVY ASSAULT	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)	s (MOD) (GZ3250)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	ram Elements:						
	64649			æ								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Otv	2	9	9	9								20
Gross Cost	14.6	51.4	40.4	50.0	81.9							238.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.6	51.4	40.4	50.0	81.9							238.3
Initial Spares			6:0	6.0	1.3							3.1
Total Proc Cost	14.6	51.4	41.3	50.8	83.2	0.0	0.0	0.0	0.0	0.0	0.0	241.3
Fiyaway U/C												
Who Sive Droc 11/C	7.3	8.6	6.7	8,3								7.8
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operated by a crew of two soldiers and will be employed by Combat Engineer units in both offensive and defensive combined arms operations. Its mission is to provide gap crossing capability for heavy maneuver forces. It will support the Abrams Tank System and the Bradley Fighting Vehicle and is compatible with these systems in mobility and survivability. bearing surface over its entire length. It is launched under armor within five minutes and can be retrieved, from either end, in less than ten minutes. The Wolverine is Package (SEP) Abrams Tank chassis. The bridge is capable of spanning gaps up to 24 meters on both prepared and unprepared abutments and can be placed on a DESCRIPTION: The Wolverine (Heavy Assault Bridge) is a 26 meter (79 feet) Military Load Class 70 bridge transported on a modified M1A2 System Enhancement

JUSTIFICATION: Operation Desert Storm illustrated that current Army bridging systems were lacking the mobility of the heavy maneuver force, gap spanning capability increased load capacity to support Military Load Class 70 vehicles and improved mobility, survivability, and logistics supportability. The Wolverine ensures the Brigade and required increased load capacity. The Wolverine replaces the Armored Vehicle Launched Bridge (AVLB) providing increased worldwide gap crossing capabilities, Combat Team's freedom of maneuver.

The Wolverine program has been terminated. The decision to terminate the program was based on an assessment of affordability and acceptance of operational risk against higher Army transformation priorities.

Exhibit P-5, Weapon	<u> </u>	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT	dget Activity/ T OF WPNS	Serial No: & TRKD CMBT	<u>-</u>	7-1 LING ITBM HEAVY ASS/	P-1 Line liem Nomenciature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD)	AB) SYS (MOD)		weapon System Lype.		Date: Febr	February 2000
		VEHS/1/T	VEHS / 1 / Tracked Combat Vehicles	oat Vehicles			(GZ3250)						
	۵		FY 98			FY 99			FY 00			전	
Cost Elements	8	TotalCost	ğ	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qt	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Vehicle Manufacturing - Contractor	Ф				24218	9	4036						
2. Vehicle Manufacturing - ANAD					782	ဖ	130						
3. Vehicle Manufacturing - GFE					3351	9	559						
4. Contract Engineering					18507								
5. Engineering Change Orders												- 431-141	
6. Project Mgmt Admin - Core					1134								
7. Project Mgmt Admin - OGA	•				1678								
8. New Equipment Training													
9. Total Package Fielding													
10. Transportation					308		***						
11. Modifications													
12. Program Closeout TBD								81901					
									1				
TOTAL					49978			81901					
FY00 program is being reassessed in light of the Army's transformation.													,

								Date:		
Exhibit	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning					Ľ	February 2000	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked					Ξ	EAVY ASSAUI	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)	SYS (MOD)	(GZ3250)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
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3. Vehicle Manufacturing - GFE	Government Furnished Equipment-									
FY 99	Various					9	929			
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REMARKS: FY00 program is being assessed in light of the Army's transformation.	in light of the Army's transformat	ion.					·			

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		Exhibit P-40, Budget		tem Justification Sheet	ition Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	scked Combat Vehick	sə				ARMORED VEH LA	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	.B) (MOD) (GZ3000)	(
Program Elements for Code B Items:	ıs:			Code:	Other Related Program Elements:	am Elements:						
ı				∢								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	146.2	0.0	0.0	1.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	150.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	146.2	0.0	0.0	1.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	150.3
Initial Spares												
Total Proc Cost	146.2	0.0	0.0	1.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	150.3
Flyaway U/C												
Wpn Sys Proc U/C												
DECORPORATION: The Americal Vehicle I cusched Dridge	V boroary	onio I oloido		A//I B) is the	Current auth	orized etand	AV/I B) is the current surhorized standard assault bridge supporting heavy forces. AVI Bs are primarily	ridge suppor	ting beavy fo	Prope AVIP	s are primari	>

DESCRIPTION: The Armored vehicle Launched Bridge (AVLB) is the current authorized standard assault bridge supporting heavy forces. AVLBs are primated to Combat Engineer and Training Units, and War Reserve sites. The AVLB is rapidly becoming unsupportable and not in a common configuration.

JUSTIFICATION:

AVLB COMMON CHASSI MOD: To complete the application of 7 each Modification Work Orders (MWOs), 87 vehicles (18% of the Active Component and high priority maneuver under cover of obscuring smoke in a tactical environment. The new vision cupola and security locking device improves closed hatch vision and vehicle security. The engine smoke generating system provides a second source of obscuring smoke in a tactical enviironment. These vehicle modifications are required on AVLBs to bring the vehicles up to the current supportable configuration. reliability and extend engine life. The AN/VVS-2 Driver's Night Viewer (DNV) enhances tactical night operations. The Smoke Grenade Launcher allows the AVLB to War Reserve units) need one or more modifications. The Armored Top Loading Air Cleaner and Air Induction System Improvements (Clean Air) will improve the

Post land Page Land Page Pa		Exhibit P-4	10M Budget It	em Justifica	ation Sheet			Date		February 2000		
Procurement of the process of the	A long of the state of the stat					P-1 Item Nomenclatu						
Code Brown Fiscal Veals FY 1996 FY 1996 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2006 TC TC TC TC TC TC TC T	Appropriation / Budget Activity/Serial PROCUREMENT C	vo. OF WPNS & TRKD CMBT VEHS / 1 / T	racked Combat Vehicle	w				ARMORED VEH LAL	INCH BRIDGE (AV.	LB) (MOD) (GZ3000)		
viton Classification FY 1989 FY 2000 FY 2001 FY 2003 FY 2006 FY 2005 TC TC 10. 0.0	Program Elements for Code B Items				Other Related Progra	am Elements						
Classification FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2005 TC TG	Description		Fiscal Years									
Slock Mod (No P3a Set) 4-4531 Oper Capability 146.2 1.0 1.2 1.7 0.0 0.0 0.0 0.0 0.0 0.0 5-4531 Oper Capability 146.2 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5-0000 Oper Capability 0.0 0.0 0.1 1.4 1.7 0.0 0.0 0.0 0.0 0.0		Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
5-4531 Oper Capability 146.2 1.0 1.2 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AVLB Block Mod (No	P3a Set)		,	,		d	d	, c		c	7
eld Combat Identification Systems (No P3a Set) 0-0000 Oper Capability 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 146.2 1.0 1.4 1.7 0.0 0.0 0.0 0.0 0.0	1-97-05-4531	Oper Capability		1.0	7.2		0.0	0.0	0.0		0.0	L.UGL
0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Battlefield Combat Ide	intification Systems (No	P3a Set)									
146.2 1.0 1.4 1.7 0.0 0.0 0.0 0.0 0.0 0.0		Oper Capability	0.0	0.0			0.0	0.0	0.0		0.0	0.2
	<u>.</u>		146.2	1.0			0.0	0.0	0.0		0.0	150.3
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Exhibit P-40,	Justification Sheet
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		Exhibit P-40, Budget		tem Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	re:					
<u>.</u>	PROCUREMENT OF WPNS & TRKD CMBT VEHS / /	NS & TRKD CMBT	VEHS / /					ARMORED VEHIC	ARMORED VEHICLE LAUNCH BRIDGE SLEP (GZ3050)	E SLEP (GZ3050)		
Program Elements for Code B Items:	St.			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Ofv												
Gross Cost	0.0	0.0	0.0	0.0	0.0	15.3	14.9	69.5	73.0	62.8	0.0	235.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	15.3	14.9	69.5	73.0	62.8	0:0	235.5
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0:0	0.0	15.3	14.9	69.5	73.0	62.8	0.0	235.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Service Life Extension Program (SLEP) applies upgrades to the Armored Vehicle Launch Bridge (AVLB) hydraulic, electrical and suspension chassis systems. It also upgrades the bridge from Military Load Class (MLC) 60 to MLC 70. The MLC 70 bridge is required to safely cross the current combat fleet weighing between 60 and 70 tons. The AVLE SLEP upgrades and updates the obsolete 1950's technology and eliminates associated supply and obsolescence issues. It improves reliability and logistics supportability by incorporating current proven technology and commercial parts. This SLEP is fundemental to improve AVLB operational readiness rates, control fleet Operations and Support (O&S) costs, and insure that AVLB remains a relevant part of the Force XXI.

HERCULES) to safely cross at full span. The hydraulic and electrical upgrade is expected to reduce future O&S costs by 50 percent. The current 85 percent AVLB system. The AVLB, which has never had a major upgrade, will be the Army's After Next first line assault bridging system. This SLEP extends the service life of the JUSTIFICATION: Termination of the M104 Wolverine Heavy Assault Bridge leaves the 36 year old AVLBs as the Army's only and highest priority assault bridging AVLB by making major subsystems supportable for the next 20 years of service. It also provides the capability for MLC 70 combat vehicles (Abrams Tanks and readiness rate is expected to be improved to an average of 90 percent.

Exhibit P-5, Weapon WTCV Cost Analysis	∢	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CN	iget Activity/	Serial No: & TRKD CMBT		P-1 Line Iter ARMORE	P-1 Line Item Nomenclature: ARMORED VEHICLE LAUNCH BRIDGE	NCH BRIDGE		Weapon System Lype:		Date: Febru	February 2000
	2		VEHS//			FY 99	SLEP (GZ3050	6	FY 00			FY 01	
Cost Flements	8	TotalCost	ĝ	TotalCost Qty UnitCost	-	Δįσ	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	Ħ	\$000	Each	\$000		Each	\$000	\$000	Each	000\$	000\$	Each	\$000
Chassis SLEP - Nonrecurring Bridge Upgrade System Technical Support - Government Technical Support - Government											5461 8198 422 1171	37.	222
TOTAL		:								·	15252		

	Exhibit P.	Exhibit P-5a. Budget Procurement History and Planning	istory an	d Planning					Date:	February 2000	
Appropriation / Budo	Annroniation / Budget Activity/Serial No:	<u>></u>	Weapon System Type:	ı Type:	0	P-1 Line Item Nomenclature:	omenclature:				
PROCURE	PROCUREMENT OF WPNS & TRKD CMBT VEHS / /					ARN	IORED VEHIC	ARMORED VEHICLE LAUNCH BRIDGE SLEP (GZ3050)	DGE SLEP	(GZ3050)	
WBS Cost Elements:	2.	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	αпу	Unit Cost	Specs Avail		RFP Issue Date
Fiscal Years			and Type		1	Delivery	Each	\$000	Now?	Avail	T
HARDWARE FY01: Chassis FY01: Bridge Upgrade		TBS	C/FP 1	TACOM	Jan-01	Nov-01	37	222	γES γES	Jun-02 Oct 00 Jun-02 Oct 00	00 00 00 00 00 00
REMARKS:	We will award two units in FY01 to be used for testing, functional evaluation and validation/verification. Upgrade of the two units will be done in May 02.	ed for testing, functional evaluation and	∆ validation ∕v	erification. Upgrade of the two	units will b	e done in M	ay 02.				

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE	00	UCTION	SCH	EDULE	,		}	ARMORED	RMOF	ARMORED VEHICLE LAUNCH BRIDGE SLEP (GZ3050)	HICLE	I.AU	CH B	RIDGE	SLEP	(GZ3	150)			Į		ſ	Į		Febr	February 2000	000	ľ	
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet				F	February 2000	0	
Appropriation / Budget Activity/Serial No:	No:					P-1 Item Nomendature:	.e.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	F WPNS & TRKD	CMBT VEHS / 1 / 1	racked Combat Vo	ehicles				M1 ABRA	M1 ABRAMS TANK (MOD) (GA0700)	GA0700)		
Program Elements for Code B Items:	Items:			Code:	Other Related Program Elements:	gram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	528.7	62.9	18.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4131.8	5835.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	528.7	62.9	18.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4131.8	5835.0
Initial Spares												
Total Proc Cost	528.7	62.9	18.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4131.8	5835.0
Flyaway U/C												
Wpn Sys Proc U/C												

Lightweight GPS Receiver (PLGR); Pulse - Jet System (PJS); Vehicle Intercommunications System (VIS); External Auxiliary Power Unit (EAPU); M1A2 Field Upgrades, the M1A1-D (Digitization) program; and the DU Armor and Improved Turret Side Armor programs. Finally, there is the Presidentially directed HALON Replacement program (Ozone Depleting Chemical Replacement). Tank Lethality is being improved by the FBCB2 Upgrades. Tank Survivability and Safety improvements Interlock (DHI). Tank Operational improvements include the Re-engine; Electronic Obsolescence; Battlefield Combat Identification system (BCIS); Precision Override); NBC Fire Warning System (NBCFW); new Hand-Held Fire Extinguishers (HHFE); Eyesafe Laser Rangefinder (ESLRF) and Driver's Hatch include Block G (Manual Blaster, Driver's / Loader's Hatch Ballistic Rims, Automatic Fire Extinguisher System (AFES) Wiring Harness Guard, Driver's Hatch and Battlefield DESCRIPTION: This budget line provides for the procurement and installation of modification kits for the Abrams series tank to improve Lethality, Latch, Ammo Door Latch Mechanism, Smoke Generator Fuel Line, Improved Gunner's Station, Driver's Viewer Quick Release (DVQR), Survivability, Safety and Operational Capabilities.

JUSTIFICATION: The priorities noted here in are consistent with USA Armor School requirements and are structured to meet needs validated by tank users in training and testing as well as in actions such as Operation Desert Storm (ODS). Degradation of tank warfighting capability and survivability, increased incidents of vehicle damage and crew injuries will occur if these modifications are delayed or deleted.

Exhibit	Exhibit P-40M Budget It	em Justific	Item Justification Sheet			Date		February 2000		
Appropriation / Budget Activity/Serial No.				P-1 Item Nomendature						
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	3 / 1 / Tracked Combat Vehicle	ø				M1 ABR	M1 ABRAMS TANK (MOD) (GA0700)	3A0700)		
Program Elements for Code B Ilems		Code	Other Related Program Elements	am Elements						1.00.
Description	Fiscal Years									
OSIP NO. Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Halon Replacement (HAR) [MOD 1]										
1-92-05-4411 Environmental	9.5	0.3	0.0	9.0	1.0	1.0	1.0	1.0	38.4	52.8
Driver's Hatch Interlock (DHI) [Mod 2]										
1-97-05-4520 Safety	20.5	2.7	0.3	1.3	1.4	4.1	5.2	5.3	13.2	54.0
Vehicle Intercommunications System (VIS) [MOD 3]	1S) [MOD 3]									-
1-92-05-4412 Legislative Compl.	40.4	11.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	54.7
Battlefield Combat I.D. System (BCIS) [MOD 4]	MOD 4]									
1-98-05-4543 Operational	0.0	0.0	2.0	3.1	3.0	3.0	3.0	1.4	171.9	187.4
Precision Lightweight GPS Receiver (PLGR) [MOD 5]	LGR) [MOD 5]									
1-92-05-4417 Manprint	9.0	0.5	0.4	0.4	0.4	0.4	0.4	0.5	14.1	17.7
Block G Mods [MOD 6]										
1-99-05-4554 Deficiency Correction	on 47.2	2.0	5.5	2.2	2.5	2.6	2.5	2.5	8.4	75.4
Pulse - Jet System (PJS) [MOD 7]										
1-92-05-4475 Operational	38.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	295.1	337.4
FBCB2 Upgrades [MOD 8]										
1-96-05-4516 Operational	0.0	0.0	0.0	7.7	4.2	2.8	1.	5.0	299	77.0
External Auxiliary Pwr Unit (EAPU) [MOD 9]	(S 0)									
1-85-05-4057 Operational	58.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	39.9	9.66
NBC Fire Warning (NBCFW) [MOD 10]	ol									
1-97-05-4524 Safety	0.0	0.5	1.3	1.5	1.5	1.5	1.5	1.6	4.0	13.4
Hand-Held Fire Extinguisher (HHFE) [MOD 11]	MOD 11]									
1-97-05-4525 Safety	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0
M1A2 Field Mods (A2FM) [MOD 12]	ion 2.1	0.8	0.9	1.0	0.0	1.0	1.4	1.2	3.3	12.6

Exhibit	Exhibit P-40M Budget It	em Justific	Item Justification Sheet		<u> </u>	Date		February 2000		
Appropriation / Budget Activity/Serial No. Papropriation / Budget Activity/Serial No. PRND & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	S / 1 / Tracked Combat Vehicle	Se		P-1 Item Nomendature	ø	M1 ABRA	M1 ABRAMS TANK (MOD) (GA0700)	,A0700)	: 3	
Program Elements for Code B tlems		Code	Other Related Program Elements	am Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Matrix Support (MXSP) [MOD 13]										
OSIP NO 14 Operational	1.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	116.8	122.4
DU Armor [MOD 14]										
1-98-05-4545 Operational	0.0	0.0	0.0	0.0	0.0	0.0	95.3	62.6	659.0	816.9
Improved Turret Side Armor [MOD 15]										
1-99-05-4555 Operational	0.0	0.0	0.0	1.7	3.0	4.4	4.9	4.6	137.5	156.1
Eyesafe LASER Rangefinder [MOD 16]										
1-99-05-4563 Safety	0.0	0.0	0.0	5.1	5.0	4.7	4.8	5.1	115.9	140.6
M1A1-D {Digitized} [MOD 17]										
1-98-05-4542 Operational	4.8	3.5	16.4	0.0	0.0	0.0	0.0	0.0	0.0	24.7
Re-Power [MOD 18]										
1-00-05-0014 Operational	0.0	0.0	0.0	0.0	123.9	0.0	237.8	237.2	1,082.0	1,680.9
Electronic Obsolescence [MOD 19]										
1-00-05-0015 Operational	0.0	0.0	0.0	8.9	23.5	0.9	45.5	62.6	1,376.1	1,522.6
Totals	223.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4,131.8	5,448.3

						NON	DOAL	INDIVIDUAL MODIFICATION	CATIO							Date		Febr	February 2000	
MODIFICATION TITLE:		Halo	n Rep	lacem	ent (Halon Replacement (HAR)	[MOD 1]	7 1]	1-92-	1-92-05-4411	11									
MODELS OF SYSTEMS AFFECTED:	S AFFEC	TED:		Σ	0,	IPM1	ш	818,	M1A1	11	4327,	M1A2	ш	747	2	TOTAL =	5892			
DESCRIPTION / JUSTIFICATION:	IFICATION																			
This Modification changes the engine compartment fire supression system in all models of the Abrams tank.	changes	s the o	engine	comp	artmer	it fire	subres	sion s	ystem	in a	model	s of th	ne Ab	rams t	ank.	This retrofit involves the	etrofit i	nvolves	the	
substitution of a dry powder fire suppressant for the Halon 1301 gas currently used. This requirement was mandated by the 1988 Montreal	dry pow	der fir	idns a	ressar	nt for	the Ha	lon 1	301 ga	s cur	ently (.pesr	This	equire	ment	was n	andate	d by t	he 198	8 Mon	real
Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals [ODC's] including the Halon 1301 used	93 con	intries	includ	ing the	U.S.	A. agre	ed to	phas	out out	Ozone	Deple	ifing C	hemic	als [O		includir	ig the	Halon	1301 u	sed [5]
In the Abrams Tank Engine Comparation (nature 1501 remains authorized for the Amed Forces and DA letter 2007/9 which implements that	ank Eng Jiroctive		Jinpart S whic	ment L	naiori Alisha	1 of 1				יו ק ק	in [naion 1301 remains authorized to the Amed Forces and DA letter 20079 which implements that	ביים הקינים	ישאר ע שייי		unenn stter 2	ann 200	which	molem	ents th	<u>.</u>
policy within the U.S. Army.	U.S. An	E.			2	2		5	2	2		5	3					5	3	{
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES	US / MAJ	OR DE	VELOPI	MENT N	AILEST(ONES:			Δ.	PLANNED			 	ACCOMPLISHED	<u>APLIS</u>	田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田				
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	Critical Design Review	esign F	Seview (•	'	•		1094				Ř	3094					
	Contractor Test & Eval.	r Test	& Eval.			,	1	ı	1	2096				×	2096					
	Development Test & Eval.	nent Tex	st & Ev	<u>ā</u>				•		3096				4	4096					
	Initial Operational Test & Eval.	erationa	I Test	& Eval.			'	'		2097				ಹ	3097					
	IPR Production Decision	luction	Decision	_		;		1		4097				4	4Q97					
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Installation Schedule:																				
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		FY 2004	8	_		FY 2005	35	-		FY 2006	90	F		FY 2007	7			2		Totals
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Inputs	41	41	41	41	40	40	41	41		-			ļ				20	2002		5892
Outputs	41	41	41	42	41	41	41	41					•		\dashv		52	5257		5892
METHOD OF IMPLEMENTATION: Contractor Team	ENTATION	N: Cont	ractor	Team	¥	ADMINISTRATIVE LEADTIME:	TRATIL	Æ LEAC	TIME		3 Mc	Months	<u>α</u>	RODUC	TION	PRODUCTION LEADTIME:	<u>訊</u> 4	Months	rs St	
Contract Dates:		ĬĻ,	FY 1999	Z	¥,N		Ĺ	FY 2000	Z	¥,N			ш	FY 2001	MAR	R 01				
Delivery Date:		u.	FY 1999	z	N/A		ш	FY 2000	Z	V/A			ш.	FY 2001	OCT	T 01				

						NDI	/IDUAL I	INDIVIDUAL MODIFICATION	ATION						۵	Date		February 2000	2000	7
MODIFICATION TITLE:	. Drive	₃r's Ha	atch In	Driver's Hatch Interlock	(DHI)	poW] (II	od 2]	2] 1-97-05-4520	5-452C											
MODELS OF SYSTEMS AFFECTED: M1	S AFFEC	TED: M	u	٥,	IPM1	= 818,	ω,	M1A1	11	4327 ,	M1A2	12 = 435	35	L	TOTAL	ROMT	II	5580		
DESCRIPTION / JUSTIFICATION:	FICATIO	ÿ																		
The Driver's Hatch Interlock (DHI) is	tch Inte	erlock			SAF	ΞTγ n	nodifica	a SAFETY modification which provides an electronic interface between the Driver's Hatch	hich	provide	s an	electro	onic in	terface	betwe	en the	Driv	er's H	atch	
and the Turret Drive (Rotation) controls.	Drive (Rotati	on) c	ontrols		purp	se is	Its purpose is to preclude turret rotation while the driver's hatch is open. In the recent	clude	turret	rotatic	in whi	le the	driver	s hatc	ים פיי	ben.	In the	rece	۳
past there have been several accidents in the field where the driver has been injured or killed by inadvertently extending his	peen	sever	al ac	sidents	⊒.	e fiel	d whe	re the	drive	r has	peen i	injured	ᅙ	led by	inadv	ertently	, exte	nding	his	
head outside the hatch while the turret was being rotated.	e hatch	h whil	e the	turret	was	being	rotate		ə 다	<u> </u>	assure	that	similar	incide	The DHI will assure that similar incidents will not occur in the tuture.	not -	occur	in the	tutur.	oj.
													•							
DEVELOPMENT STATUS / MAJOR DEVELOPMEN	US / MA.	JOR DE	VELOP	MENT	T MILESTONES:	ONES:			딥	PLANNED			ACC	ACCOMPLISHED	SHED					
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	Critical Design Review	Jesign 1	Review			'		:		3096				3096						
	Development Test & Eval.	nent Te	ist & E	val.		ı	1	;		4096				4096						
	IPR Production Decision	duction	Decisio	_		•	1	;	ı	4097				4097						
	ECP Completed	mpleted	_			ı	1	:	1	1098				1098						
	Tech. Data Package Available	ata Pac	kage A	vailable		•	•	:		1098				2038						
Installation Schedule:	ŀ				ŀ								-			ŀ				
	ᆘᄮ	ŀ	FY 1999	- 1	\dagger	}	FY 2000	ا و	\dashv	-	FY 2001		_	<u>-</u>	ا ا	1	ŀ	FY 2003		
	Totals	-	2	3	4	-	2	3	4							4	=	2	8	4
Inputs	435	252	253	253	253	56	27	27	27							125	123	123	124	125
Outputs	435	252	253	253	253	- Se	27	27	27	123	123 12	124 12	125 123	123	124	125	123	123	124	4ZL
										0000		-		1000			ļ			900
		FY 2004	- 1	+	-	FY 2005	- 1	1		- Y 2006	- 1	-	֓֞֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֓֡	§L	L	(0 .		2	orais
	-	7	၉	4	-	7	8	4	=	7	8	4	=	2	4	ទី	Complete			
Inputs	123	123	124	125	123	123	124	125			.,.						1552			2280
Outputs	123	123	124	125	123	123	124	125		-							1552			2280
METHOD OF IMPLEMENTATION: Contractor Teams	ENTATIO	N: Con	itractor	Teams		DMINIS	STRATIV	ADMINISTRATIVE LEADTIME:	TIME:	2	Months	ths	PRO	UCTIO	PRODUCTION LEADTIME:	MĒ	4 ∑	Months		
Contract Dates:		_	FY 1999		Υ _N		Ŀ	FY 2000	N/A	~			FY 2001	9	~	10				
Delivery Date:		_	FY 1999		V/N		ĺΨ	FY 2000	N/A	,			FY 2001	9	JU.	01				

				INDINI	UAL MO	INDIVIDUAL MODIFICATION	N					Date		February 2000	2000	
MODIFICATION TITLE (Cont):	D	Driver's Hatch Interlock (DHI) [Mod 2] 1-97-05-4520	ch Inte	rlock (E	<u>√</u>] (IH	lod 2] 1	-97-05-4	520								
FINANCIAL PLAN: (\$ in Millions)	FY 1998	_														
	and Prior	FY 1999	6	FY 2000	Ĺ	FY 2001	FY 2002	05	FY 2003	7 200	FY	FY 2005	TC		TOTAL	
	Qty \$	Qty	\$	Oty \$	ğ	€	ğ	₩	Qty \$	Qty \$	Öţ	s	Q.	\$	Qfy	s
RDT&E									-							
PROCUREMENT									0	ų,	702		4067		0022	
Kit Quantity	31/3								200				200		2200	
Installation Kits Noncourring																
Equipment	19.4								2.7		3.8	3.9		8.5		38.3
Equipment, Nonrecurring																
Engineering Change Orders																
Testing																
Training Equipment	0.1							··-								0.
Support Equipment																
Other								-								
Interim Contractor Support																

Installation of Hardware															425	•
FY 1998 & Prior Eqpt Kits	435 1.0														654	0 1
FY 1999 Eqpt Kits		1011	2.7											<u> </u>	1011	2.7
FY 2000 Eqpt Kits				107	0.3										107	0.3
FY 2001 Eqpt Kits					495	5 1.3									495	1.3
FY 2002 Eqpt kits			•				495	1.4							495	4.1
FY 2003 Eqpt kits			•						495 1.4						495	4.
FY 2004 Eqpt kits										495	1.4				495	4.
											495	1.4			495	4.
 TC Equip-Kits													1552	4.7	1552	4.7
Total Installment	435 1.0	1011	2.7	107	0.3 495	5 1.3	495	1.4	495 1.4	495	1.4 495		1552	4.7	5580	15.6
Total Procurement Cost	20.5		2.7		0.3	1.3		1.4	4		5.2	5.3		13.2		54.0

Modification
Individual
Exhibit P-3a

						Z	MDU/	L MOL	INDIVIDUAL MODIFICATION	NO O							Date			February 2000	000	
MODIFICATION TITLE:	Vehicle Intercommuni	e Inte	rcom	nunic	ation	cations System	Eg.	(VIS)	<u>8</u>	3	(VIS) [MOD 3] 1-92-05-4412	15-44	12									
MODELS OF SYSTEMS AFFECTED: M1	S AFFECTE	D:	11	0,	PM1	,0 =	M1A1	li I	4337,	M1A2		= 181	-	TOTAL	ROMT	= 1	4518					
DESCRIPTION / JUSTIFICATION:	IFICATION:																					
The Vehicle Intercommunications System (VIS) is an intercom for inter-crew communications and a connection to a radio for tank	ercommu	nicati	suo	Syster IS re	√ r	S) is	an	ntercc VIC.	E to	r inte	r-crev	v con	imuni	cation	is and	diffici	onnec	s System (VIS) is an intercom for inter-crew communications and a connection to a radial visconial to a AN / VIC - 1 which is technologically obsolete difficult to maintain and	o a re	adio fo	or tan	눌
susceptible to electronic countermeasures. VIS is a state-of-the-art replacement which has none of these drawbacks. This is a	ectronic	cour	iterm(easure	3S.	VIS i	Sas	tate-o	f-the-	art re	place	ment	which	h has	none	of t	hese	drawb	acks.	This	is a	Ş
includes \$3.0M which Congress added to the President's Budget in FY 99 for validation of the "Wireless" VIS concept. Note that	mandate which C	od pri Songri	ogran ess a	idded T	1	eston he Pi	es ar eside	nt's E	ooy Sudge	tin F	7 99 fc	or val	lidatio		the "	Virele	7 "SS" \	do to the President's Budget in FY 99 for validation of the "Wireless" VIS concept. Note that	rcept.	Not I	that	<u> </u>
procurements exceed installations.	xceed ins	stalla	ions.	<u> </u>) -	X X X	were	ood d	nLea	as sp	ares	and	mese	=	Ten (10) kits were procured as spares and these will NOT be installed.	⊑ ee	stalled	<u>.</u>				
THE STATE OF A THE STATE OF THE	OI VW / OIL		ā	AFNTA	I PEC	MII ESTONES				PIA	PI ANNED			AC	ACCOMPLISHED	<u> </u>	Į L					
	Development Test & Eval.	nt Tes	t & EV	al.			, , !	1	1	! 4	4092			:	×	2092						
	Initial Operational Test & Eval.	ational	Test	& Eval.				1	I I	8	3094				ж ¥	3094						
	IPR Production Decision	ction L	Decision					1	1	4	40,94				1	4						
Installation Schedule:														-				ŀ				
	<u>.</u> ⊁	}	FY 1999				<u>`</u>	8			<u>ا</u> ــــــــــــــــــــــــــــــــــــ	FY 2001	ļ	+	ŀ	FY 2002	- 1	+	ŀ	FY 2003		,
Inputs	Totals 3745 ′	120	120	120	120	120	120	3		4	-	7	70	4	+	7	ກ	4	-	7	2	4
Outputs	3405	120	120	120	83	168	168	168	166			_	_			\dashv	_	-	\dashv	_		
		FY 2004	4			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FY 2005			ا	FY 2006		\vdash		FY 2007	7	-		2			Totals
	-	2	3	4	1	2	3		4	1	2	8	4	-	2	9	4	Complete	olete			
Inputs Outputs																						4518 4518
METHOD OF IMPLEMENTATION:	ENTATION	1	pot/Co	Depot/Contr. Teams		ADMIN	ISTRA	TIVELI	ADMINISTRATIVE LEADTIME:	岜	-	Months	ths	H.	PRODUCTION LEADTIME:	TION L	EADTIN		4 M	Months		
Contract Dates:		Œ	FY 1999	7	99 NUL	6		FY 2000	8	ΑX				₹	FY 2001	ΝΑ	⋖					
Delivery Date:		ב	FY 1999	٦	OCT 9	66		FY 2000	g	A/A				F	FY 2001	N/A	ͺ		ı			

MODIFICATION TITLE (Cont):		Vehicle	Intercom	munication	s System (Vi	Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412	1-92-05-4412					
FINANCIAL PLAN: (\$ in Millions)		 										
	FY 1998 and Prior		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	<u>5</u>	TOTAL	\top
	Oty \$	a	49	Qty \$	Qty \$	Qfy \$	Qty \$	Qty \$	Qty \$	Oty \$	Oty \$	П
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits Installation Kits Equipment Equipment, Nonrecurring Equipment, Nonrecurring Equipment, Testing Training Equipment Support Equipment Other Interim Contractor Support		35.9	3.0	2.0	O						4518 43 5	5.0
Installation of Hardware FY 1998 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt kits FY 2004 Eqpt kits FY 2005 Eqpt kits FY 2005 Eqpt kits	3405	4.5	9.0	670 1.	0.						3848 5	1.0
Total Installment	3405	4.5 443		670	0						4518 6	6.1
Total Procurement Cost		11	11.3		3.0						54	24.7
				-								

Date

						Z	DIVID	JAL MC	INDIVIDUAL MODIFICATION	TION							Da	Date		February 2000	, 2000	
MODIFICATION TITLE:		Battlefield Combat I.	Com	oat I.E	Sys	tem	BCIS) [MC	D. System (BCIS) [MOD 4] 1-98-05-4543	1-98-(5-45	13										
MODELS OF SYSTEMS AFFECTED	S AFFEC	ED:			2	M1 =	o,	IPM1	0 =	M1A1		= 1535,		M1A2	= 867	7	TOTAL		RQMT :	= 24	2402	
DESCRIPTION / JUSTIFICATION: The Battlefield Combat Identification System (BCIS) is a millimeter wave Question and Answer system that identification of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. designated Army Horizontal Technology Integration (HTI) Initiative. Note that the cost of installations is incost.	FICATION Combat friendly y Horize	Since ontal	itificat ind v Tech		syster ss to ly Inte	n (BC minir egrati	i (Si) i nize on (F	s a r battler	nillime field f	ter w ratrici	ave (de an ote th	Questi d ent nat th	on al nance e cos	nd Ar com st of	ıswer bat e install	syste ffectiv ations	em tha reness s is in	at will s. Th	System (BCIS) is a millimeter wave Question and Answer system that will provide positive es to minimize battlefield fratricide and enhance combat effectiveness. The BCIS is a gy Integration (HTI) Initiative. Note that the cost of installations is included in the hardware	ide po ilS is is the ha	positive is a hardwar	Ð
A																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	US / MAJ	OR DE	VELOF	MENT	MILES	STONE	iii			ΡΓ	PLANNED	Ω		¥	ACCOMPLISHED	APLIS	HED					
	Milestone II	=								• •	3Q 93				•	3Q 93						
	Critical Design Review	esign I	Review							•	20 94				•••	20 94						
	PPQT / LUT	5								•	10 95					10 95						
	T. F. XXI Demo	Demo									30 97				••	3Q 97						
	NATO Demo	ешо									4Q 97				•	40 97						
	LRIP IPR	~								•	2Q 99				••	30 30						
Installation Schedule:														-				-				
	<u>.</u> ⊁ :	ŀ	FY 1999	666			L	FY 2000	-	4	٦	FY 2001	ŀ	+	ŀ	FY 2002		†	ļ	FY 2003		
,	Totals	+	7	က	4					4 6	- ;	7 5	_د ج	4 4	- ;	7	e (4 4	= ;	7 5	m 5	4 6
inputs Outputs								01	10	10	10	0 0	10	5 6	10	0 0	5 6	5 5	5 6	5 5	5 5	10
		FY 2004	8			<u> </u>	FY 2005			"	FY 2006		_		FY 2007	7(:	2			Totals
	-	2	3	4			2	3	4	-	2	3	4	-	7	8	4	Ş	Complete			
Inputs Outputs	6 6	, 6 6	5 5	5 5	5 5		8 6	9	9										2194 2212			2402 2402
METHOD OF IMPLEMENTATION:	ENTATION	1	Contractor		Install	ADMI	NISTR	ATIVE I	ADMINISTRATIVE LEADTIME:	ME		l	Months	ď.	Sobuc	NOIL	I 🗀	Ü	7 N	Months		
Contract Dates: Delivery Date:		<u> </u>	FY 1999 FY 1999	~ ~	≰ ≰			FY 2000 FY 2000	8 8	MAR DEC	88			c c	FY 2001 FY 2001	20	MAR 0 DEC (5 5				
														İ	l					ŀ		

MODIFICATION TITLE (Cont):	Ba	ttlefield Comb	Battlefield Combat I.D. System (BCIS) [MOD 4] 1-98-05-4543	n (BCIS) [M	OD 4] 1-98-09	5-4543				
FINANCIAL PLAN: (\$ in Millions)	[_								
	FY 1998 and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Oty \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$	Oty \$	Qty \$	Oty \$
RDT&E										
Kit Quantity			30	40	40	40	40	18	2194	2402
Installation Kits										
Installation Kits, Nonrecurring										
Equipment			2.0	3.1	3.0	3.0	3.0	1.4	171.9	187.4
Equipment, Nonrecurring										
Engineering Change Orders										
Data	-									
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits				30						90
FY 2001 Eqpt Kits					40					40
FY 2002 Eqpt kits						40				40
FY 2003 Egpt kits							40			40
FY 2004 Eapt kits								40		40
FY 2005 Eqpt kits									2212	2212
TC Equip-Kits										
Total Installment				30	40	40	40	40	2212	2402
Total Procurement Cost			2.0	3.1	3.0	3.0	3.0	1.4	171.9	187.4

February 2000

Date

						<u>N</u>	1DUAL I	INDIVIDUAL MODIFICATION	ATION							Date		Fe	February 2000	8	
MODIFICATION TITLE:	Preci	sion L	ightw.	eight (3PS R	Precision Lightweight GPS Receiver	ır (PL	(PLGR) [I	[МОБ	5] 1.	-92-0	1-92-05-4417									
MODELS OF SYSTEMS AFFECTED: M1 = 0,	S AFFECT	ED:	11 = 0	, IPM1 =	1 = 0,		M1A1 = 4327,	, M1A2 = 0	0 =	[5	TOTAL ROMT	. = TMS	= 4327								
DESCRIPTION / JUSTIFICATION:	-ICATION	- <u>-</u> -																			
The Precision Lightweight GPS Receiver (PLGR) is a self-contained locater unit which can collect and process GPS satellite	Lightw	eight	GPS	Rece	iver (PLGR	is a	ceiver (PLGR) is a self-contained locater un	ontain	ed lo	cater / /DV	unit v	which	can c	ollect	which can collect and process GPS The finding shown is for the PLGR	rocess	GP.	S sate	əllite	
Installation Kit only. PLGR units were procured and provided to PM Abrams by PM GPS.	nly. P	LGR	units	were	proce	ired a	nd pro	velocit	to PN	1 Abra	ams k	. y.	GPS	<u>.</u>	5	2 2 =	<u>}</u>	<u> </u>			
									·												
									·				{		2	2					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	JS / MAJ(OR DE	VELOP	MENT	MILEST	ONES:			귑	PLANNED	Ω.		Ą	\text{S} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	ACCOMPLISHED	<u> </u>					
	Preliminary Design Review	y Desi	gn Rev	iew		1	1		. 4	2091				×	2091						
	Critical Design Review	esign F	Review				1		•	4091				4	4091						
	Contractor Test & Eval.	r Test	& Eval			1	•	•		3093				4	4Q93						
	Development Test & Eval.	ent Te	st & E	/al		1	•		•	1094				×	3094						
	Initial Operational Test &	rations	al Test	& Eval.		'	1		7	4094				¥	1095						
	IPR Production Decision	uction	Decisio	_		,	1	•		4Q94				×	2095						
	TDP Available	lable				-	1			2Q99				30	3099						
Installation Schedule:																					
	Pr Yr		FY 1999	66			FY 2000	0(FY 2001				FY 2002				FY 2003	_	
- 1	Totals	F	2	3	4	-	2	3	4	-	7	3	4	-	7				7	က	4
Inputs	38				200	88	34	34	34	ဗ္ဗ	8	34	8	33	34	34	34	83	84	34	34
Outputs	38	\exists			1	22	20	20	20	8	34	8	34	33	34				34	34	3 4
												-				-		ŀ			
		FY 2004	â			FY 2005	92			FY 2006				FY 2007			•	<u>p</u>		P	Totals
	1	2	3	4	Ŧ	2	3	4	-	7	3	4	-	7	3	4	Complete	ge			
Inputs	33	8	34	发	33	8	34	8									3279	হা			4327
Outputs	33	34	34	34	33	34	34	34				_					3414	4			4327
METHOD OF IMPLEMENTATION: Contractor Tean	NTATION	Con	tractor	Team	1	DMINIS	TRATIV	ADMINISTRATIVE LEADTIME:	IME		2 Mo	Months	.	ODUCT	ION LE	PRODUCTION LEADTIME:	2	Months	ths		
Contract Dates:		ш	FY 1999	1		66	ĺΨ	FY 2000	AUG				₹	FY 2001	AUG						
Delivery Date:		ш	FY 1999)	JAN	00	ĹL.	FY 2000	JAN	2			፫	FY 2001	JAN	1 02					

MODIFICATION TITLE (Cont):		Precis	Precision Lightweight GPS Receiver (PLGR) [MOD	veight G	PS Rec	eiver (PLGR)	[MOD	5] 1-9;	1-92-05-4417	17							
FINANCIAL PLAN: (\$ in Millions)																		
	FY 1998	لے												ŀ				
	and Prior	-	7 199	FY 2000	8	۷ 200	+	28	FY 2003	83	28	+	8	\dashv	ပူ	\dashv	OTAL	
	Qfy \$	9	Qty \$	ð	€9	à	\$	Oţ}	ð	8	ð	\$	Ofy S	\dashv	Qf Qf	₽	Q.	₩
RDT&E																		
PROCUREMENT																		
Kit Quantity	38		200	135		135		135	135	-	135		135		3279		4327	
Installation Kits					-													
Installation Kits, Nonrecurring																		
Equipment	0	0.1	0.5		0.3		0.3	0	0.3	0.3		0.3		0.4	•	1.1	•	13.6
Equipment, Nonrecurring																		
Engineering Change Orders	0	0.2								-								0.2
Data																		
Training Equipment		-										_						
Support Equipment				٠														
Other Denot Lebel																		0
Other [benet Labs]		<u>,</u>																1
Interim Contractor Support																		
														_				
Installation of Hardware	86																88	ć
EV 1999 & Filed Edpt Nis		-															3	;
FV 2000 Eart Kits				200	0												200	0.1
EV 2001 Eapt – Kits				}	;	135	0										135	0.1
EV 2002 Equt kits						}	;	135 0	0.1								135	0.1
FY 2003 Eapt kits									135	0.1							135	0.1
FY 2004 Eqpt kits											135	0.7					135	0.1
FY 2005 Egpt kits													135	6.7			135	0.1
TC Equip-Kits							-								3414	3.0	3414	3.0
Total Installment	38 (0.1		200	0.1	135	6.	135 0	0.1 135	0.1	135	5	135	0.1	3414	3.0	4327	3.7
Total Procurement Cost		9.0	0.5		4.0		0.4		0.4	0.4		4.0		0.5		14.1		17.7

			INDIVIDU.	INDIVIDUAL MODIFICATION	NC			Date	Febru	February 2000	П
MODIFICATION TITLE (Cont):	Blc	Block G Mods	[MOD 6] 1-99-05-4554	-05-4554							
FINANCIAL PLAN: (\$ in Millions)	FY 1998							-			
	and Prior Otv \$	FY 1999 Otv \$	FY 2000 Otv \$	FY 2001 Qtv \$	FY 2002 Qty \$	FY 2003 Qty \$	FY 2004 Qty \$	FY 2005 Qty \$	TC Oty \$	TOTAL Qty \$	
E. JREMENT antity ation Kits ation Kits, Nonrecurring ment ment, Nonrecurring	var.	0.5	0.3	0.5	7.0	var. 0.8	var	var.	var. 2.8		22.7
Data Training Equipment Support Equipment Other Interim Contractor Support											
Installation of Hardware FY 1998 & Prior Eqpt – Kits FY 1999 Eqpt – Kits FY 2000 Eqpt – Kits FY 2001 Eqpt – Kits FY 2002 Eqpt – Kits FY 2002 Eqpt – kits FY 2005 Eqpt – kits FY 2005 Eqpt – kits TC Equip-Kits	var. 31.5	var.	.5 var · 5.2	var 1.7	var 1.8	var. 1.8	var. 1.8	var. 1.8	var.		31.5 1.5 5.2 1.8 1.8 1.8 5.6
Total Installment	31.5	1	.5 5.2	1.7						3	52.7
Total Procurement Cost	47.2	2	.0 5.5	5 2.2	2.5	5 2.6	3 2.5	2.5	5 8.4	,	75.4

						2	VIDUA	L MOD	INDIVIDUAL MODIFICATION	NO							Date			February 2000	000	
MODIFICATION TITLE:	Pulse	} - Jet	Pulse - Jet System	$\overline{}$	PJS) [MOD 7] 1-92-05-4475	[MOD	7] 1-	92-05	-4475													
MODELS OF SYSTEMS AFFECTED	AFFEC	<u> </u>			¥	,0 =	IPM1	ш	0,	M1A1	= 4327,	27 ,	M1A	M1A2 = 2	228		TOT	TOTAL ROMT	QMT	= 4555	22	
DESCRIPTION / JUSTIFICATION:	ICATION	Z																				
The Pulse - Jet System (PJS) replace	Systen	n (PJ	S) re	places	is a large portion of the current engine air filtration system.	irge p	ortior	of t	he cu	rrent	engin	e air	filtra	tion s	ysten	≓	The purpose of PJS is to	bose	of PJ	Si Si	9	
extend the time between required air path servicing in any severe dust environment. The current system requires frequent	betwee	en re	quirec	air	path :	servici	ng in	any	seve	e du	st en	ironr	nent.	The	CUTTE	ant sy	stem	requir	es fre	adneut		
servicing in such an environment which can introduce dust into the clean air path as each servicing requires that the path is	au e	nviror	nment	whic	h can	intro	duce	dust	into	ਸੂ ਜੂ	ean s	ir pa	ith as	eac	Ser.	icing	requir	es. ⊕	at the	, path	დ i	
broken in order to complete the service. PJS greatly reduces the number of times the clean air path requires servicing.	o o	nplete	the ,	servic	ος L	g.	reatly	redu	ces t	Je nu	mber	of I	mes	the c	ean &	ar pa	th rec	luires	Servic	ing.	-ne	<u> </u>
result is improved combat performance and reduced O&S costs. Pus was identified as user profits indified one by Abrains can units involved in Operation Desert Storm (ODS). NOTE: 180ea additional PJS Kits were procurred using FY97 DBOF OSCR	d com Opera	ibat pating	oertorr Deser	nance t Sto	and m (C	redu(DS).	ة ق	SSS C	:0sts. 180	ea ad	was Idition	<u>а</u> Р	illed IS Ki	as us ts we	re pre	curre	O&S costs. PJS was identified as user priority fluitiber one by Aprairis and NOTE: 180ea additional PJS Kits were procurred using FY97 DBOF OSCR	i ge	97 DI	BOF (SCF	£ ~
(O & S Cost Rediction) funds. This procurement is NOT a part of the Abrams tank MOD Line procurements but the 180 are	iction)	fund	IS. ⊤	his pr	ocure.	ment	is Š	ОТ а	part	of the	e Abr	ams	tank	MOD	Line	procu	ıremel	nts b	ut the	180	are	
being installed using MOD Line \$\$\$,	sing №	QQ	Line		thus total procured will be 180 less than the total installed.	total	orocui	≽ e.	e ≣	180	less	nan	the to	otal II	stalle	o i						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	S / MAJ	OR DE	VELOF	MENT	MILES	TONES				PLA	PLANNED			AC	ACCOMPLISHED	PLISF	ED					
<u></u>	Preliminary Design Review	ry Des	ign Re	view		•	٠	'	1	20	2092				2092							
	Critical Design Review	esign	Review			ı			•	ဗ္ဗ	3092				3092							
	Contractor Test & Eval	or Test	& Eva	_:					1	ဗ္ဗ	3093				3093							
נ	Development Test & Eval.	nent Te	est & E	val.		•	1		•	ဗ္ဗ	3093				3093							
	Initial Operational Test & Eval.	eration	al Test	& Eva	_:	1		1	1	4	4093				4093							
	IPR Production Decision	Juction	Decisic	E		•	,		•	4	4Q93				4093							
	TDP Available	ilable				۱				×	2096				2096					١	İ	
Installation Schedule:	ŀ											3		-				ŀ		2000	١	
<u> </u>	_ ≿ : å ;	ļ	FY 1999		1	T	ک '	FY 2000	L	1	-	۲۷ 2001	0	+	+	7 2002	7 -	+	F		2 6	4
Innife	otals 514	- 6	7 6	၈ ၉	1 8	- 09	60				-	4	,	-	+	1	,	+	+	+	,	
Outputs	425	11	76	76	76	48		48														
		FY 2004	204			FY;	FY 2005			Œ	FY 2006				FY 2007		\neg		۴		Ĕ	Totals
	1	2	3	4	1	2	3		,		7	3	4	-	7	e	4	Complete	Sete			
Inputs																		.,	3681			4555
Outputs												_	\dashv	\dashv	-	-	\dashv		╗			4555
METHOD OF IMPLEMENTATION:	NTATIO					ADMIN	STRA	TIVE LE	ADMINISTRATIVE LEADTIME:	辿	24	Months	ths	E	ODOC	10 11	PRODUCTION LEADTIME:		24 Mc	Months		
Contract Dates:		· ·	FY 1999		Enter Date	ate		FY 2000	8 8	Enter Date	Date			<u>.</u> 2	FY 2001	ם ב	Enter Date					
Delivery Date:			FY 1999		Enter Date	are		2	3		Calc				3		iici Dak					

				INDIN	DUAL M	INDIVIDUAL MODIFICATION	Z				Date		February 2000	000	
MODIFICATION TITLE (Cont):	<u>a</u>	Pulse - Jet System	t Syster		OW]	(PJS) [MOD 7] 1-92-05-4475	-05-4475								
FINANCIAL PLAN: (\$ in Millions)	FV 4000	Г													
	and Prior	FY 1999	666	FY 2000	-	FY 2001	FY 2002	FY 2003		FY 2004	FY 2005	TC		TOTAL	
	Oty \$	Qty	H	Ofy 8	Н	Oty \$	Oty \$	Ş Ş	\$ Oty	ss	Qty \$	Αψ	5	Öţ	€9
RDT&E PROCUREMENT					м-ж-				***						
Kit Quantity	694											3681	251.9	4375	251.9
Installation Kits			•••												
Installation Kits, Nonrecurring	ć	0				-									32.6
Equipment	32.6	ی م													0.6
Equipment, Nomecuming Engineering Change Orders	1.0	0													1.0
Testing	0.0	6													0.0
Training Equipment															
Support Equipment						. —									
Other															
merini comacio soppor							_								
			• ••												
							<u>,</u>								
												1-000			
Installation of Hardware														!	(
FY 1998 & Prior Eqpt Kits	425 3.	3.6												475 C 10	
FY 1999 Eqpt Kits		302	2.4											5 50	4 (
FY 2000 Eqpt Kits				144	1.2									4	Ä
FY 2001 Eqpt Kits															
F 1 2002 Eqpt - Ni3 FY 2003 Eapt kits															
EV 2004 Erot kits															
FY 2005 Eqpt kits															
TC Equip-Kits												3681	43.2	3681	43.2
Total Installment	425 3.	3.6 305	2.4	144	1.2							3681	43.2	4555	50.4
Total Procurement Cost	38.7	.7	2.4		1.2								295.1		337.4

						N N	INDIVIDUAL MODIFICATION	MOD	FICATI	NO							ٳ	Date		February 2000	/ 2000	T
MODIFICATION TITLE:	出	FBCB2 Upgrade	lpgrac		3 00	ij 1-9	[MOD 8] 1-96-05-4516	4516														
MODELS OF SYSTEMS AFFECTED:	S AFFECTE	ä	M1,	M1A1-D	<u>~</u>	M1A2	M1A2-SEP															
DESCRIPTION / JUSTIFICATION:	IFICATION:																					
FBCB2 Upgrade refers to the Command and Control software required for digital communications between the Abrams tanks and	e refers	to the	Con Con	man(d and	S E	ntrol	softw	/are i	equir	ed fo	r dig	ital c	ommi	unica e an	ions 1 Bel	betwee	en the	e Abra	ams t	nand and Control software required for digital communications between the Abrams tanks an arms team. The Force XXI Battle Command Brigade and Below [FBCB2] Initial Operational	and
Test & Evaluation as noted in the milestones below, will be the first formal user test of this software. This budget line provides	ion as no	oted ir	the	miles	tone	s be	ow, .	, iii	• the	first	form	Sn FE	er te	st of	this	softw	are.	This	pndge	₃t line	provid	des
the means for updating microprocessors and software in order to keep abreast of advances in digital computing and wireless networking technologies. All costs including installation are included in the hardware / contract costs shown on the following to	updating inologies.	micro All (proces	ssors inclu	and Jing	softv instal	vare lation	in or are	der ta inclu	kee ded i	pabi nthe	reast har	of a Iware	dvanc ≯/cor	ces ir	n digi costs	tal co s sho	mputir wn on	og and the f	d wire followi	nicroprocessors and software in order to keep abreast of advances in digital computing and wireless All costs including installation are included in the hardware / contract costs shown on the following page.	ge.
	1																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	US / MAJO	R DEVE	OPME	NT MI	ESTC	NES:				PLA	PLANNED			¥	ACCOMPLISHED	MPLIS	SHED SHED					
	Preliminary Design Review	Design	Review	_	,	1		1		2097	26				3Q97	24						
	Critical Design Review	ign Rev	iew			1			,	S	3Q97				4097	24						
	Contractor Test & Eval.	Test &	Eval.			•				Ω.	1098				1098	86						
	Development Test & Eval.	nt Test	& Eval.					•		ဗ္ဗ	3098				3098	86						
	Performance Spec. Complete	e Spec.	Compl	eţe						4	4Q99				4099	တ္တ						
	IOT&E [Now FBCB2]	low FBC				•				2 2	2002 2003											
	IPR Production Decision	ction De	cision							※	3002											Ī
Installation Schedule:					-									}				ľ				
		<u>"</u> -	FY 1999		┽		FY 2000				<u>ا</u> ا	FY 2001	٦	-	7	FY 2002	7005	1	7	5 2003		V
	lotals	-	N	<u></u>	4	-	7	ী	4			7	7	+	+	7	2	1	-	4	7	F
Inputs Outputs																						
					1		1															
-		FY 2004		\vdash		FY 2005	905			<u></u>	FY 2006		H		FY 2007	20			υ		1	Totals
	-	2	8	4	-	2	8	4			2	က	4	-	7	e	4	ਲੈ	Complete			
Inputs Outputs																						
METHOD OF IMPLEMENTATION: Field Srvc. Rep.	ENTATION:	Field \$	Srvc. R	eb.	¥	DMINIS	ADMINISTRATIVE LEADTIME:	VE LE	ADTIM	نن	7	Mo	Months	₫	RODU	CTION	PRODUCTION LEADTIME:	ΜĒ		ω	Months	
Contract Dates:		FY 1999 FY 1999	FY 1999 FY 1999	A N				FY 2000 FY 2000	00	ĕ ₹				כ כ	FY 2001 FY 2001		NOV 90 JUL 91	o =				
Delivery Date.																						

			INDIVIDUA	INDIVIDUAL MODIFICATION	Ž			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	E	FBCB2 Upgrades	l	[MOD 8] 1-96-05-4516						
FINANCIAL PLAN: (\$ in Millions)										
	L									
	d Pri	FY 1999	/ 200	7 200	/ 200	/ 200	7 200	18	읻	OTAL
	Oty \$	Oty \$	\$ Ag	\$ Oth	Oty &	\$ Ap	Oty \$	¢ ¢	\$ Oth	City *
RDT&E										
PROCUREMENT										
Kit Quantity										
Installation Kits										
Installation Kits, Nonrecurring						(C G	41
Equipment).,	4.2	7.8	•	0.0		2.
Equipment, Nonrecurring										
Engineering Change Orders										
Data										
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
Installation of Hardware						_				
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment										
Total Procurement Cost				7.7	4.2	2.8	1.1	5.0	56.2	77.0

	:			UDIVIDU,	INDIVIDUAL MODIFICATION	NO			Date	Febn	February 2000	
MODIFICATION TITLE (Cont):		Exterr	ial Auxili	External Auxiliary Pwr Unit	(EAPU) [MOD 9]	D 9]	1-85-05-4057					
FINANCIAL PLAN: (\$ in Millions)	FY 1998	Г										
	and Prior	Ц	198	/ 200	7 200	7200	20	7 200	200	ည	TOTAL	
	Oty \$	<u> </u>	Oty &	Sty Sty	\$ Ofy	Oty &	Ofy &	Oty &	\$ €	Oty &	è	₽
RDT&E PROCUREMENT Kit Quantity	1838									1162	3000	
Installation Kits												
Installation Kits, Nonrecurring Equipment		49.9								32.0		81.9
Equipment, Nonrecurring Engineering Change Orders												
Data												
Training Equipment												
Other												
Interim Contractor Support												
Installation of Hardware FY 1998 & Prior Egpt Kits	1666	4.8									1666	8.4
FY 1999 Eqpt Kits			172 1.4	4							172	4.1
FY 2000 Eqpt – Kits FY 2001 Eapt – Kits												
FY 2002 Eqpt kits												
FY 2003 Eqpt kits FY 2004 Eapt kits												
FY 2005 Eqpt kits TC Equip-Kits										1162 7.9	9 1162	7.9
Total Installment	1666		172 1.4	4						1162 7.9	3000	17.7
Total Procurement Cost	5	58.3	1.4	4						39.6	6	9.66

						INDI	/IDUAL	INDIVIDUAL MODIFICATION	ATION	_						۵	Date		February 2000	, 2000	
MODIFICATION TITLE:) Fire	NBC Fire Warning		(NBCFW)	() [M	DD 1	[MOD 10] 1-97-05-4524	05-45	124											
MODELS OF SYSTEMS AFFECTED:	AS AFFEC	стер:		₹ 1	= 0,	IPM1	= 0	M1A1		= 4327		M1A2 =	0 #		5	TOTAL ROMT		= 4327	72		
DESCRIPTION / JUSTIFICATION:	FICATIC	ä																			
The NBC Fire Warning (NBCFW) modification is an NBC (Nuclear, Chemical & Biological) system safety fix.	Warnin	g (NE	3CFW)	mod	ificatio	n is	an NB	S S S	slear,	Chen	jcal	& Bio	logica	sys (tem s	afety	ť.	It addresses the	Iresse	s the	
problem of NBC system fires caused by overheating. The NBCFW will provide for an audible warning alarm in the crew CVC	C syste	am fire	es car	pesr	oy ov€	ırheati	ng.	The NE	3CFW	will	provic	le for	an at	dible	warn	ing al	arm i	n the	crew	CVC	
helmet that sounds when the NBC sponson over-temperature light illuminates. This audible warning will allow tank crews to	unds w	hen t	he NE	3C sp	onson	over	- temp	erature	light	E .	inates	₽ ;	is auc	Jible .	varnir 	jiw ei ∫	- allo	v tank ∴	Crew	s to	
lake tile eatiy action hecessary to properly dear with an NBC miter line. Only the MTA1 requires this modification.	ACIIOII	F SEC	Saly 1	o pro	periy .	deal v	מו ב ב	1 NBC	iliter ire	≡re. Zinga	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	The S	MTAT A	requ	res u	ils m	odifica	tion.	Earlier	<u>.</u>	
	2	2	, D		5	ם סופר	2	טויים אוואזאפים מוני איורבי א מופ ספווען וויסטווים איורבי אייביים אייביים אייביים אייביים אייביים אייביים אייבי	בֿ ט ה	- 			- fino	S S S	Male	<u>8</u>	ກ ກ				
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	TUS / MA.	JOR DE	VELOP	MENT	MILEST	SANC:				PLANNED	P		 	ACCOMPLISHED	IPLIS	HE					
	Preliminary Design Review	ary Des	ign Rev	iew		•	•	1		2096				3096	9						
	Critical Design Review	Jesign	Review			1	,	•		3097				3097	7						
	Initial Operational Test & Eval.	eration.	al Test	& Eval.		,	1	•		1098				1098	œρ						
	IPR Production Decision	duction	Decisio	_		1	'	1		2098				2098	&						
	T D P Available	vailable					,			1099				1099	တ						
Installation Schedule:																					
	Pr Yr		FY 1999	66	\vdash		FY 2000	0	Н		FY 2001	_	H		FY 2002	22			FY 2003	83	
	Totals	7-	7	3	4	-	7		4]	7	3	4	F	2	က	4	1	2	3	4
Inputs					200	123	123		125		123	124	125	123	123	124	125	123	123	124	125
Outputs		\dashv		\exists	\dashv	22	22	20	22	123	123	124	125	123	123	124	125	123	123	124	125
				-				-				}				ŀ		ŀ			
		FY 2004	- 1	+	-	FY 2005			-	FY 2006	- 1	\dashv		FY 2007	_			<u>٥</u>		Ľ	Totals
		2	၈	4	-	7	8	4	=	2	က	4	-	2	3	4	ঠ	Complete			
Inputs	123	123	124	125	123	123	124	125										1157			4327
Outputs	123	123	124	125	123	123	124	125	-	_	-		_		-			1652			4327
METHOD OF IMPLEMENTATION: Contractor Team	ENTATIO	S S	tractor	Team		DMINIS	TRATIV ,	ADMINISTRATIVE LEADTIME:	JME:		~ !	Months	ä	PRODUCTION LEADTIME:	TION	EADTIN	ij	Ω Σ	Months		
Contract Dates: Delivery Date:		r u	FY 1999 FY 1999	∢ €	AUG 99	. -	Lί	FY 2000 FY 2000	AN E	8 8 z z			ር ዕ	FY 2001 EV 2001	⇒ =	JAN 01					
6					1				3	ı			-	3	أ إ	ı					

						-					
MODIFICATION TITLE (Cont):	Ä	NBC Fire Warning		(NBCFW) [MOD 10]		1-97-05-4524					
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005]]]	TOTAL	
	Oty \$	Oty \$	Qty \$	Qty \$	Oty \$	Oty \$	Qty \$	Qty \$	Qty \$	Oty \$	
RDT&E PROCUREMENT											
Kit Quantity		200	495	495	495	495	495	495	1157	4327	
Installation Kits											
Installation Kits, Nonrecurring		,									
Equipment		0.5	1.2	1.3		1.3	1.3		1.4		9.
Equipment, Nonrecurring											
Engineering Change Orders											
Cala											
Training Equipment									V 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
Support Equipment											
Other											
Interim Contractor Support											
						1 10					
Installation of Hardware											
FY 1998 & Prior Eqpt Kits											
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits			200 0.1	_						200	0.1
FY 2001 Eqpt Kits				495 0.2	2					495	0.2
FY 2002 Eqpt kits					495 0	0.2				495	0.2
FY 2003 Eqpt kits						495 0.2	2			495	0.2
FY 2004 Eqpt kits						-	495 0.2			495	0.2
FY 2005 Eqpt kits								495 (0.2	495	0.2
TC Equip-Kits									1652 0.7	7 1652	0.7
Total Installment			200 0.1	495	495	495	495	495	1652	4327	1.8
Total Procurement Cost		0.5	1.3	1.5		1.5 1.5	5 1.5		1.6 4.0		13.4
											I

MODIFICATION TITLE (Cont):	Ha	Hand - Held Fir	Fire Extinguisher (HHFE) [MOD 11]	эг (ННFE)		1-97-05-4525	2			
FINANCIAL PLAN: (\$ in Millions)										
		EV 1000	EV 2000	EV 2001	EV 2002	EV 2003	EV 2004	EV 2005	J <u>T</u>	TOTAL
	Oty \$	Oty \$	\$ cto	\$ Apo	Qty \$	Qty \$	Qty \$	Oty \$	Qty \$	Qty \$
RDT&E PROCUREMENT						•				
Kit Quantity	. 4			15000						15000
Installation Kits										
Installation Kits, Nonrecurring										
Equipment				2.0						2.0
Equipment, Nonrecurring										
Engineering Change Orders	***				-					
Data										
Training Equipment										
Support Equipment										
Other								-		
Interim Contractor Support										
					_					
:										
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total installment										
Total Procurement Cost				2.0						2.0

February 2000

Date

			∠	IDIVIDUAL	INDIVIDUAL MODIFICATION	NO			Date	Februs	February 2000	7
MODIFICATION TITLE (Cont):	M	M1A2 Field	Mods	(A2FM)	[MOD 12]	1-97-05-4534	34					
FINANCIAL PLAN: (\$ in Millions)												
		EV 1000	-	EV 2000	EV 2001	EV 2002	EV 2003	FY 2004	FY 2005	21	TOTAL	
	Oty \$	\$ 1200	O	\$007	Oty Sta	Sty Sto	Qty \$	Oty \$	Oty \$	Oty \$	δţ	↔
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment, Nonrecurring Equipment, Nonrecurring Equipment, Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support												
Installation of Hardware FY 1998 & Prior Eqpt – Kits FY 1999 Fmt – Kits	2.1		80			a.			148.000		, 4 102 - 5, 1	2.1
FY 2000 Eqpt – Kits FY 2001 Eqpt – Kits				0.0	←	1.0						0.0
FY 2003 Eqpt kits			.——			· .	1.0					1.0
FY 2004 Eqpt kits								4. 4.				4. 0
FY 2005 Eqpt Kits									<u> </u>	3.3		3.3
Total Installment	2.1		8.0	6.0	-	1.0 0.9	1.0	1.4	1.2		1	12.6
Total Procurement Cost	2.1		0.8	0.9	1				1.2	3.3		12.6

						INDIVIDUAL MODIFICATION	MODIF	ICATIO	Z						Date		February 2000	
MODIFICATION TITLE:	W	. <u>ĕ</u>	Support		(MXSP) [MOD	MOD	13] (OSIP NO 14	NO 14		į							
MODELS OF SYSTEMS AFFECTED:	S AFFECTE	ä	WHOLE	E FLEET	—													
DESCRIPTION / JUSTIFICATION:	FICATION:																	
Matrix Support funds Government salaries for Engineering, Quality Assurance, Procurement and Logistics Abrams Tank Modification program.	unds Gov odification	vernm ν prog	ent sali ram.	aries 1	or En	gineeri	ğ Ö	uality	Assura	ınce, F	Procurer	nent a	nd Lo	gistics		ort of	support of the entire	စု
TATO TIMESTO	0 444 0	טלילם ל	DOMEN		MII ECTONEO													1
DEVELOPMENT STATUS / MAJOR DEVELOPMENT N / A	JOS/MAJON	, DEVEL	O. Figure 1		S S S S S S S S S S S S S S S S S S S													
Installation Schedule:																		
	Pr Yr	<u> </u>	FY 1999			FY 2000	000	Н		FY 2001	1		≿	FY 2002			2003	
Inputs	Totals	-	3	4	-	7	<u>е</u>	4	-	2	က	4	2	8	4	-	7	8
		FY 2004			FY.	FY 2005	П		FY 2006	9		占	FY 2007			To		Totals
	1	2	3 4		2	3	4	-	2	3	4	-	2 3	4	S	Complete		
Inputs Outputs																		
METHOD OF IMPLEMENTATION: PM/PEO Initiative	ENTATION:	PM/PEC	Initiative		ADMIN	ADMINISTRATIVE LEADTIME:	IVE LEA	DTIME:		0 Mg	Months	PROL	UCTIO	PRODUCTION LEADTIME:	IME	Š	Months	
Contract Dates: Delivery Date:		FY 1999 FY 1999	666 988	∢ ≼ Z Z		- -	FY 2000 FY 2000		e e			FY 2001	5 5	¥ ¥	:			

and Prior Qty \$													
Qty \$	L	FY 1999	FY 2000	00	FY 2001	FY 2002	Н	7 200	7 20	7 200	7	1 1	OTAL
	+	Oty \$	Oţţ	€9	Oţ}	ĝ	€	Oty &	\$ Ŷ	S (O	Ağ	₩	Ofy S
	4.	9.0		9.0	9. 9.	σ	9.0	9.0	9.0		9.0	116.8	122.4
												·····	
FY 1998 & Prior Eqpt Kits													
	-												
,													
	1.4	9.0		9.0	9.0	9	9.0	0.6	0.6		9.0	116.8	122.

Matrix Support (MXSP) [MOD 13] OSIP NO 14

MODIFICATION TITLE (Cont):

INDIVIDUAL MODIFICATION

						Ź	/IDUAL	INDIVIDUAL MODIFICATION	:ICATI(N _C								Date		February 2000	2000	
MODIFICATION TITLE:			DU Armor	mor	[MOD	14]	1-98-	[MOD 14] 1-98-05-4545	15													
MODELS OF SYSTEMS AFFECTED: $M1 = 0$, $IPM1 = 0$, $M1A1 = 1463$, $M1A2 = 0$	AFFECT	ED: M	1 = 0,	IPM1 =	0, M1,	11 = 14	63, M	1A2 = 0		TOTAL = 1463	1463											
DESCRIPTION / JUSTIFICATION:	-ICATION	ټــا																				
Depleted Uranium [DU] Armor Package	n [DU]	Arm	or Pa	skage	<u>.0</u>	Clas	sified	a Classified Program.	am.													
·																						
						!																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: N / A (This is a continuation of the M1A2 Armor Program) will be installed with FY2004 funds.	ontinuati with FY	or Delion of '2004'	velopi the M funds	Meni N 1A2 A 3.	MILES I ONES: Armor Progr	Progra		72 ar	mor	sets	procu	red v	with !	M1A2	6dn	rade	(SS)	GĀ	72 armor sets procured with M1A2 upgrade (SSN: GAO 750) funds	funds	10	
																			1			
	Pr Yr		FY 1999	<u>@</u>			FY 2000	 8			1	FY 2001		-		FY 2002	200			FY 2003	203	
Inputs Outputs	Totals	=	2	က	4	-	2	<u></u>	4			2	ю .	4	-	2	3	4	-	2	8	4
		FY 2004	8			FY 2005	902			\	FY 2006		\vdash		FY 2007	20			2		-	Totals
•	F	2	3	4	1	2	3	4	٦	2		3	4	-	2	3	4	ŏ	Complete			
Inputs	72	72	7.5	72	72														1103			1463
Outputs		12	30	30	8	99	္က	စ္က				_	\dashv	-	\dashv				1343			1535
METHOD OF IMPLEMENTATION:	INTATION		0	Contractor		ÜWIW	STRAT	ADMINISTRATIVE LEADTIME:	DTIME	نن څ	9	Months	ths	<u></u>	SOBUL	NOIL	PRODUCTION LEADTIME:	JME:	13	Months		
Contract Dates:		LÚ	FY 1999 FY 1999		۷ ×		_	FY 2000 FY 2000		₹ ₹				ב ב	FY 2001		≰					
Delivery Date.		-	2001	۱	إ																	1

			GIAIGNI	INDIVIDUAL MODIFICATION	NOI			Date	-	February 2000	
MODIFICATION TITLE (Cont):	na	Armor	[MOD 14]	1-98-05-4545							
FINANCIAL PLAN: (\$ in Millions)		_									
	FY 1998	1000	1 5000	EV 2004	EV 2002	EV 2003	FY 2004	FY 2005	101	-	TOTAL
	and Prior	\$ 20	\$ 40	Oty \$	Oty \$	Oty \$	\$ AO	S AD	1	\$ Qty	\$ X
RDT&E											
PROCUREMEN I							240	120	1103	-	1463
Installation Kits											
Installation Kits, Nonrecurring							,				î
Equipment							91.7	56.5		281.0	7.67/
Equipment, Nonrecurring											
Engineering Change Orders											
Data											
Training Equipment											
Support Equipment											
Other											
Interim Contractor Support											
					-						
Installation of Hardware						- 444					
FY 1998 & Prior Eqpt Kits							.,,,,			_	
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits											
FY 2001 Eqpt Kits											
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits							72 3.6				72 3.6
FY 2005 Eqpt kits								120			
TC Equip-Kits									1343		
Total Installment							72 3.6	120	6.1 1343	78.0	1535 87.7
Total Procurement Cost							95.3			229.0	816.9

		NON	INDIVIDUAL MODIFICATION	CATION					Date		Feb	February 2000	
MODIFICATION TITLE:	Improved Turret Side	Armor [MOD 15] 1-99-05-4555	15] 1-99-05	4555									
MODELS OF SYSTEMS AFFECTED:	M1A1 =	100 and M1A2 = 767	- 292 =	TOTAL =	867								
DESCRIPTION / JUSTIFICATION:	'IFICATION:												
Improved Turre	Improved Turret Side Armor is a completely passive special armor designed to improve RPG (Rocket Propelled Grenade)	letely passiv	ve special	armor d	esigned	to impro	we RPG	Rock	et Pro) pelled	Grenad	(e)	
protection by 2		of the crev	v compartir		The new design will completely replace the current turret side	design \	will com	pletely	eplace.	the co	rrent	urret s	ide
armor and sign	armor and significantly enhance tank /	crew operational capabilities	onal capabl		and survivability.	ability.							
DEVELOPMENT STAT	DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	MILESTONES:		P	PLANNED		ACC	ACCOMPLISHED	SHED				
	Preliminary Design Review	•	1	4	4098			4098					
	Contractor Test & Eval.	1	1 1	- 2	2099			2039					
	Critical Design Review	1	1	4	4Q99			4099					
	IPR Production Decision	1	1 1	4	4000								
	Tech. Data Package Available	•	1		1001								
Installation Schedule:													
	Pr Yr FY 1999		FY 2000		FY 2001	101		FY 2002	02		٦	FY 2003	
	Totals 1 2 3	1	2 3	4	1 2	3	4	2	3	4	-	2 3	4
Inputs							16		2	2	7		
Outputs				-			4	4	4	4	2	5 5	5
									-		-		
	FY 2004	FY 2005	05	1	FY 2006		≧	200			<u>م</u>		Totals
	1 2 3 4	1 2	3 4	=	2	4	1 2	m	4	Complete	aţe		
Inputs		7 7						******		2	745		867
Outputs	7 7 8 8	7 7	7 8	_		-			_		ิงไ		867
METHOD OF IMPLEMENTATION:	Contractor Teal	5	ADMINISTRATIVE LEADTIME:	OTIME:	9	Months	PROD 7	CTION	EADTIM	E: 13	3 Months	S	
Contract Dates:	FY 1999 FY 1999	Y Y	FY 2000	₹ ₹			FY 2001		JAN 62				
								١					

			INDIVIDUA	INDIVIDUAL MODIFICATION	z			Date		February 2000	y 2000	
MODIFICATION TITLE (Cont):	lm	Improved Turret	Side Armor [rret Side Armor [MOD 15] 1-99-05-4555	-05-4555							
FINANCIAL PLAN: (\$ in Millions)												
•	L											
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	ð	ည	TOTAL	بئ
RDT&E									-			
PROCUREMENT												
Kit Quantity				16	20	30	29	27	745		867	
Installation Kits												
Installation Kits, Nonrecurring												
Equipment				1.7	2.1	3.3	3.2		3.0	90.0		103.3
Equipment, Nonrecurring												
Engineering Change Orders												
Data												
Training Equipment												
Support Equipment												
Other												
Interim Contractor Support												
						4						
										•		
:												
Installation of Hardware												
FY 1998 & Prior Eqpt Kits									****			
FY 1999 Eqpt Kits												
FY 2000 Eqpt Kits												
FY 2001 Eqpt Kits												
FY 2002 Eqpt kits					16 0.9						16	0.9
FY 2003 Eqpt kits						20 1.1					70	7:
FY 2004 Eqpt kits							30 1.7				တ္တ	1.7
FY 2005 Eqpt kits								29	1.6		53	1.6
TC Equip-Kits									772	47.5	772	47.5
Total Installment					16 0.9	20 1.1	1 30 1.7	7 29	1.6 772	47.5	867	52.8
Total Procurement Cost				1.7	3.0	4.4	4.9		4.6	137.5		156.1

				INDIVIDUAL MODIFICATION	DIFICATION			Date	February 2000
MODIFICATION TITLE:	Eyesafe Laser	Laser	Rangefinder (ESLRF) [MOD 16] 1-99-05-4563	(ESLRF)	[MOD 16]	1-99-05-45	163		
MODELS OF SYSTEMS AFFECTED:	NFFECTED:		M1 = 0, I	IPM1 = 0,	M1A1 = 4192,	4192,	M1A2 = 0	TOTAL =4192	
DESCRIPTION / JUSTIFICATION:	CATION:								

Units are equiped with the best A1 possible. The ESLRF represents a significant modification to the A1 fleet which will result in Nd:YAG LRF (Neodidium: Ytrium Aluminum Garnet Laser Range Finder) which can permanently damage unprotected eyes. The The Eyesafe Laser Rangefinder (ESLRF) is an improved laser rangefinder which is compatible with existing M1A1 tank sights allows for unit training / warfighting without the need for stringent safety precautions as had been required when employing the ESLRF is an integral part of a Force Modernization program that will ensure that the highest priority Force Package I M1A1 This enhancement (can range through obscurants to any target visible in day or night sights) and is eyesafe at any range. improved tank fightability and survivability.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

N / A - The M1A1 ESLRF program is a continuation of the M1A2 Upgrade ESLRF program. All development, testing and decision milestones are complete.

Installation Schedule:																						
	Pr Yr		FY 1999	66			FY 2000	000			F	FY 2001			ш.	FY 2002		-		FY 2003	3	
	Totals	-	2	3	4	_	2	3	4		7	2	3	4	1	2	3	4	1	2	3	4
Inputs					H							46		46	46	47	33	34	34	34	33	34
Outputs														_	46	46	46	47	33	34	34	8
•																						
		FY 2004	400	_		FY	FY 2005			Ğ	FY 2006			-	FY 2007				70		Totals	SE
	F	2	3	4	F	2	3	4			2 3	3	4	-	2	3	4	Complete	olete			
Inputs	8	34	33	34	52	53	53	53										.,	3459		4	4192
Outputs	33	8	34	34	33	34	34	34									\dashv	w	3602		4	4192
METHOD OF IMPLEMENTATION: Contractor Team	ENTATIC	N: Con	tractor	Team	1	VDMIN	ADMINISTRATIVE LEADTIME:	IVE LE	ADTIM	نن	3	3 Months	စ္အ	PRC	DUCT	PRODUCTION LEADTIME:	ADTIM	ய்	ω 6	Months		
Contract Dates:		<u>.</u>	FY 1999	Z	A/N			FY 2000	0	∀/Z				FY 2001	50	Ĭ	DEC 00					
Delivery Date:		<u>.</u>	FY 1999		N/A			FY 2000	0	N/A				FY 2001	1001	SEI	SEP 01		٠	i		

												ſ
MODIFICATION TITLE (Cont):	Ey	Eyesafe Laser		Rangefinder (ESLRF) [MOD 16]		1-99-05-4563						
FINANCIAL PLAN: (\$ in Millions)												
	FY 1998 and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	77	-	TOTAL	
	Qfy \$	Oty \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$	Qty \$	φ	€	Qty \$	
RDT&E												
PROCUREMEN				185	135	135	135	143	3459		4192	_
Installation Kits												
Installation Kits, Nonrecurring												
Equipment				5.1	4.0	4.0	4.1		4.3	92.1	=	113.6
Equipment, Nonrecurring												
Engineering Change Orders									-			
Data												
Training Equipment												
Support Equipment								***				
Other												
Interim Contractor Support		-										
					_							-
Inchallation of Hardward												
installation of raidware												
FY 1998 & Prior Equi Nits												
FY 1999 Eqpt Kits												
FY 2000 Eqpt Kits												
FY 2001 Eqpt Kits												
FY 2002 Eqpt kits					185 1.0							1.0
FY 2003 Eqpt kits						135 0.7					135	0.7
FY 2004 Eqpt kits							135 0.7					0.7
FY 2005 Eqpt kits								135 (0.8		135	0.8
TC Equip-Kits									3602	23.8		23.8
Total Installment					185 1.0	135 0.7	135	135	0.8 3602	23.8	4192 2	27.0
Total Procurement Cost				5.1	5.0	4.7	4.8		5.1	115.9	14	140.6

Date

INDIVIDUAL MODIFICATION

					<u>S</u>	/IDUAL	INDIVIDUAL MODIFICATION	CATION							٦	Date		February 2000	, 2000	
MODIFICATION TITLE: M	M1A1-D {Digitized}	Digitiz		QOP	[MOD 17] 1-98-05-4542	38-05-	1542													
MODELS OF SYSTEMS AFFECTED:	ECTED:	Σ 	, =	IPM1	!!	oʻ	M1A1 =	= 98,	M1A2	0 = 0		TOTAL	П	98						
DESCRIPTION / JUSTIFICATION: The Abrams M1A1-D is an M1A1 Abrams Main Battle Tank that has been equiped with a digital applique command and control package. The A-Kit consists of an Upgraded Tank Commander's Panel (UTCP) and associated peripheral hardware. The B-Kit is the Applique Computer display and keyboard. The C-Kit provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface Computer display and keyboard. The C-Kit provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface Unit (DIU) to process raw tank data and format messages for transmittal to the Applique computer. Some of the tanks slated for this improvement also have to be modified to accept the Enhanced Position Locating and Reporting System, Commonly referred to as the EPLRS radio.	TION: Is an an Upgran Leypoar Reyboar an tan tan an en en to be	M1A1 maded data The lik data modifie	Abran Tank C C-Kit and f	ns Ma Somme provir ormat accept	in Batt ander's des a messe the E	te Tar Panel far tar iges fe	ms Main Battle Tank that has been equiped with a digital applique command and control package. Commander's Panel (UTCP) and associated peripheral hardware. The B-Kit is the Applique it provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface format messages for transmittal to the Applique computer. Some of the tanks slated for this accept the Enhanced Position Locating and Reporting System, Commonly referred to as the EPLRS	has be and ability mittal tion Lc	sen eq assoc by int to the	tuiped liated egratir Applic	with & periphe ga a b ga a b ga a b ga a cc	a digita eral ha North F empute	al applardware	lique o	comms le B-K ule (NI f the t	ind an lit is the FM) are FM; are ferre	d con ne App nd a l slated	trol pe olique Digital for th as the	sckage Interfi is EPLF	ace 3.
This digitization modification will enable the M1A1 to exchange digital command and control data in the Army's Common Operating Environment format used the the more advance M1A2 SEP tanks and other members of the combined arms team. It is a key component of	dification ed the	will e	nable vre adv	the M	1A1 tc M1A2	SEP	the M1A1 to exchange digital command and control data in the Army's Common Operating dvance M1A2 SEP tanks and other members of the combined arms team. It is a key compand	gital c	ommar ier me	nd and mbers	d conti	ol dat	a in the bined	he Arr arms	ny's C team.	ommo It is	n Ope a key	erating / com	oonen	t of
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Preliminary Design Revie Critical Design Review Initial Operational Test & Eval. IPR Production Decision E C P Available TDP Available	US / MAJOR DEVELOPMENT I Preliminary Design Revie Critical Design Review Initial Operational Test & IPR Production Decision E C P Available	EVELOF Design In Rev ional 1 on Dec able	MENT I Revie iew Test & ision	T MILEST ie ie & Eval.	ONES		1 1 1 1 1	<u>a</u>	PLANNED 2098 3098 4098 3000 3000			<	ACCOMPLISHED 2Q98 3Q98 4Q98 4Q99	OMPLIS 2098 3098 4098 4099	밀					
Installation Schedule:		FY 1999	66			FY 2000	00			FY 2001		$\mid \mid$		FY 2002	05			FY 2003	8003	
Totals Inputs Outputs	-	2	е	4	-	30	34	34 4	7 48	7	e	4	-	2	е п	4	-	2	3	
	FY 2004	904			FY 2005	05	H		FY 2006	စ္ခ			FY 2007	37	\prod		To			Totals
	2	3	4	-	2	3	4	7	2	က	4	-	2	6	4	ទី	Complete			
Inputs Outputs																				98
METHOD OF IMPLEMENTATION: Contract Dates: Delivery Date:		Contractor Team FY 1999 SE FY 1999 JU	or Tean	유교	ADMINIS 99 00	STRATI	ADMINISTRATIVE LEADTIME: 99 FY 2000 I	TIME: DEC JUN	8 2	က	Months	בננ	PRODUCTION LEADTIME: FY 2001 AUG 01 FY 2001 JUN 02	TION I.	LEADTIN AUG 01 JUN 02	ΛĒ:	8	Months		
	l															l	l			l

M1A1-D {Digitized} MOD 177 1-98-05-4542				INDIVIDUA	INDIVIDUAL MODIFICATION	z			Date	Februar	February 2000
As 3.5 Installation of hardware is included in the contract price.	MODIFICATION TITLE (Cont):	M	1A1-D {Digiti:	zed} [MOD 1	17] 1-98-05-4	542					
Annecutring var var var var var var var va	FINANCIAL PLAN: (\$ in Millions)	L									
Oty \$ City \$ C		and Prior	FY 1999	FY 2000	FY 2001	7 200	/ 200	7 200	200	ဍ	OTAL
Nonrecurring Nonrecurring nge Orders ent ant r Support resting or Eqpt - Kits -		Qty \$	Qty \$						Oty \$	St St	\$ Qt/
Nonrecurring Nonrecurring nge Orders ent ant esting or Support esting	RDT&E PROCUREMENT										
aurring 4.8 3.5 rders bort t Kits 4.8 3.5	Kit Quantity	var	var	var							86
ourring 4.8 3.5 rders bort t Kits 4.8 3.5	Installation Kits										
rders rders rders rders 1 Kits 1.	Installation Kits, Nonrecurring	3.0									
rders rders 1- Kits	Equipment	4.8	ෆ්								24.7
tort t Kits	Equipment, Nonrecurring				•						
t Kits	Engineering Change Orders										
t Kits											
t Kits	Training Equipment										
t Kits	Support Equipment										
t Kitis	Other										
t Kitis	Interim Contractor Support										
t Kits	Gov't Support & Testing										
t Kits	dia.								44.54		
t Kits											
rior Eqpt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits	Installation of Hardware			Installati	ion of hardware is	included in the	contract price.				
t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits	FY 1998 & Prior Eqpt Kits										
tr - Kits tr - Kits tr - Kits tr - Kits tr - Kits tr - Kits tr - Kits tr - Kits tr - Kits	FY 1999 Eqpt Kits										
t - Kits t - kits t - kits t - kits t - kits t - kits t - kits t - kits	FY 2000 Eqpt Kits						_				
t - kits t - kits t - kits t - kits t - kits t - kits t - kits t - kits	FY 2001 Eqpt Kits						_				
of - kits of - kits of - kits of - kits of - kits of - kits of - kits	FY 2002 Eqpt kits										
of – kits of – kits ent ent	FY 2003 Eqpt kits							-			
ot – kits ent	FY 2004 Eqpt kits										
ent	FY 2005 Eqpt kits										
4 N N N N N N N N N N N N N N N N N N N	TC Equip-Kits										
35	Total Installment										
0.4	Total Procurement Cost	4.1		16.4							24.1

	INDIVIDUAL MODIFICATION Date Fe	February 2000
MODIFICATION TITLE: Re-Power [MOD 18]	1-00-05-0014	
MODELS OF SYSTEMS AFFECTED: M1 = 0, II	IPM1 = 0, M1A1 = 1671, M1A2 = 1097 TOTAL = 2768	
DESCRIPTION / JUSTIFICATION:		
This modification is Phase II of the Abra	This modification is Phase II of the Abrams engine campaign plan. It is intended to reduce the O&S cost of the Abrams Tank engine. This	ne. This
mod will reengine the active component	mod will reengine the active component Abrams fleet with a lighter, more tuel efficient and more reliable engine.	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	IT MILESTONES: PLANNED ACCOMPLISHED	
Preliminary Design Review		
Critical Design Review	4001	
Development Test & Eval	4Q03 2Q04	
MWO Approved	3004	
Installation Schedule:		
Pr Yr FY 1999	FY 2000 FY 2001 FY 2002	2003
Totals 1 2 3	3 4 1 2 3 4 1 2 3 4 1 2 3 4 1	2 3 4
Inputs		
FY 2004	FY 2005 FY 2006 TO	Totals
1 2 3 4	4 1 2 3 4 1 2 3 4 1 2 3 4 Complete	
Inputs 112 112		2768
Outputs 112 112		2768
METHOD OF IMPLEMENTATION:	MINISTRATIVE LEADTIME: 24 Months PRODUCTION	શ
ió	FY 2000 Enter Date FY 2001	
Delivery Date:	Enter Date FY 2000 Enter Date FY 2000 Enter Date	

			NDIVIDUA	INDIVIDUAL MODIFICATION	2			Date	Februar	February 2000
MODIFICATION TITLE (Cont):	R	Re-Power [MOD	ND 18J 1-00-05-0014	-0014						
FINANCIAL PLAN: (\$ in Millions)	EV 1998	_								
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	/ 200	200	5	OTAL
	Qty \$	Qty \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$	Qty \$	Oty &	St.
RDT&E										
Kit Quantity					224		404	393	1747	2768
Installation Kits							- 14			
Installation Kits, Nonrecurring									-	
Equipment										
Equipment, Nonrecurring					123.9		237.8	237.2	1082.0	1680.9
Engineering Change Orders										
Data										
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
Installation of Hardware	•									
FY 1998 & Prior Eqpt Kits							-			
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment										
Total Procurement Cost					123.9		237.8	237.2	1082.0	1680.9

And Prior FY 1999 FY 2000 Cty \$ Cty \$ Cty \$	4 1999 FY 200	7.500	FY 2001 Ωty \$ 8.9	FY 1999 FY 2000 FY 2001 FY 2002 Qty \$ Qty \$ 23.5	FY 2003 Ωty \$ 6.0	FY 2004 \$	FY 2005 Oty \$ 62.6	TC	TOTAL \$
_{''}									
			8.9	23.5	6.0	45.5	5 62.6	1376.1	1522.6

INDIVIDUAL MODIFICATION

0								Date:				
		Exhibit P-40, Budget		em Justific	Item Justification Sheet		-			February 2000		
Appropriation / Budget Activity/Serial No:	l No:					P-1 Item Nomenclature:	.e.					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	MBT VEHS / 1 / Tra	cked Combat Vehick	S8				M1A	M1A1D RETROFIT (GA0720)	720)		
Program Elements for Code B Items:	ï			Code:	Other Related Program Elements:	ım Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty							85	107	10	233	866	1433
Gross Cost	0.0	0.0	0.0	0.0	0.0	6.0	11.6	12.9	0.9	24.0	116.1	171.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	6.0	11.6	12.9	6.0	24.0	116.1	171.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	6.0	11.6	12.9	6.0	24.0	116.1	171.6
Flyaway U/C												
Wpn Sys Proc U/C												

provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface Unit (DIU) to process raw tank data and format messages for transmittal to the Applique computer. Some of the tanks slated for this improvement also have to be modified to accept the Enhanced Position Locating and Reporting DESCRIPTION: The Abrams M1A1-D is an M1A1 Abrams Main Battle Tank that has been equipped with a digital applique command and control package. The A-Kit consists of an Upgraded Tank Commander's Panel (UTCP) and associated peripheral hardware. The B-Kit is the Applique computer display and keyboard. The C-Kit System, commonly referred to as the EPLRS radio.

format used by the more advanced M1A2 SEP tanks and other members of the combined arms team. It is a key component of the Army's plan to field the First Digital JUSTIFICATION: This digitization modification will enable the M1A1 to exchange digital command and control data in the Army's Common Operating Environment Division in CY00.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CN	dget Activity T OF WPNS	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT		P-1 Line Iter M1	P-1 Line Item Nomenclature: M1A1D RETROFIT (GA0720)	GA0720)		Weapon System Type:		Date: Febr	February 2000
	₽	VEHS/1/	FY 98	VEHS / 1 / Iracked Combat Vehicles		FY 99			FY 00			FY 01	
Cost Elements	. 8	⊥	ĝ	UnitCost	TotalCost	Ąö	UnitCost	TotalCost	⊢	UnitCost	TotalCost	Qfy	UnitCost
	Ц	000\$	Each	\$000	\$000	Each	\$000	000\$	Each	000\$	000\$	Each	\$000
1. Upgraded Tank Commander's Panel (A-Kit)/7 2. Applique Computer (B-Kit)/1 3. Far Target (C-Kit) /1 4. Government Support (including Test) Total											891		
1/Funded under SSN GA0700													
	ł												

			ā					Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory a	nd Planning					ŭ.	February 2000	0
Appropriation / Budgat Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:	эт Туре:		P-1 Line Item	P-1 Line Item Nomenclature: M14	ure: M1A1D RETROFIT (GA0720)	GA0720)		
Combat Vehicles WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Award Date Date of First	ΔII	Unit Cost	_	Date F	RFP Issue
Fiscal Years		and Type			Delivery	Each	\$000		Avail	
led Tank Commander's Panel (A-Kit)*/1	GDLS/2	1	TACOM							
2. Applique Computer (B-Kit Integration Hardware) /1	PM, FBCB2	GFE	Ft. Monmouth, NJ							
3. Far Target (C-Kit) /1	GDLS/2	CPFF	ТАСОМ							
4. Government Support (including test)	Various	Various Various	Various	A/N	N/A	N/A				
REMARKS: 1. Funded under SSN GA0700 2. General Dynamics Land Systems, Sterfing Heights, MI	riling Heights, MI									

								Date:				
		Exhibit P-40, Budget		Item Justification Sheet	ation Sheet				•	February 2000		
Appropriation / Budget Activity/Serial No:	at No:					P-1 Item Nomendature:	re:					
PROCUREMENT	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tr.	scked Combat Vehic	sek				SYSTEM ENHAN	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)	M1A2 (GA0730)		
Program Elements for Code B Items:	ž:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Otv						16	20	30	29	27	505	627
Gross Cost	0.0	0.0	0.0	0.0	0.0	36.1	58.3	87.2	89.8	89.7	1621.4	1982.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	36.1	58.3	87.2	89.8	89.7	1621.4	1982.5
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	36.1	58.3	87.2	89.8	89.7	1621.4	1982.5
Fiyaway U/C												
Wpn Sys Proc U/C						2.3	2.9	2.9	3.1	3.3	3.2	3.2

DESCRIPTION: The M1A2 Systems Enhancement Program (SEP) upgrades 627 M1A2 tanks to the newer SEP configuration. This modification updates the on-board Commander's Independent Thermal Viewer (CITV). The total system design also easily accommodates future computer system upgrades. The SEP tank features the Army's Common Operating Environment software, which facilitates the digital flow of command and control data among the members of the combined arms team. computer systems of the M1A2 tank and incorporates Second Generation Forward Looking Infra-Red (FLIR) technology into the Gunner's Primary Sight (GPS) and the

JUSTIFICATION: The SEP Program will modernize the U.S. Army's armor force to enhance the combat effectiveness of the Abrams Tank Fleet and maintain the key elements of the tank industrial base.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CI	dget Activity	/Serial No:		P-1 Line Iten SYSTEM ER	P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT F	P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT PGM: SEP M1A2		Weapon System Type:		Date: Febr	February 2000
Allalysis			racked Com	VEHS / 1 / Tracked Combat Vehicles			(GA0730)		- 1				
	₽		FY 98			FY 99			FY 00	•		FY 01	
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TOTAL											36149		

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Appropriation / Bu PROCUREME	Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPINS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:	m Type:		P-1 Line Item Nomendature: SYSTEM ENHAN	lomenclature: STEM ENHAN	n Nomendature: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)	3EP M1A2 (GA0730)	
WBS Cost Elements:	Combat Vehicles	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	ΔŢ	Unit Cost		Date F Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$000	Now?	Avail	
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2. FLIR FY 01		Various	SS/FFP	СЕСОМ	Nov-00	Jun-02	16	825	Yes		Sep 00
REMARKS:	/1 General Dynamics Land System, Sterling Hgts, MI	ling Hgts, MI									

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1 Lima Army Tank Plant, Lima, OH	+	2 2	2 2	\dagger	2 2	3 2	Ĺ	_	NETAL	Y .	\dagger	+			1	າຕ	Τ		<u> </u>	t	l	24	Т							
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Item J

								Date:				
		Exhibit P-40, Budget I	=	em Justific	tem Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomendature:	ıre:					
PROCUREME	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tra	acked Combat Vehick	SE	,			ABRAMS U	ABRAMS UPGRADE PROGRAM (GA0750)	4 (GA0750)		
Program Elements for Code B Items:	ıms:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	306	120	120	120	120	08	08	08	43	24		1093
Gross Cost	1230.0	500.8	9:695	688.2	680.4	551.8	560.5	567.8	379.9	280.8	453.5	6463.3
Less PY Adv Proc	411.9	297.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5		2260.3
Plus CY Adv Proc	709.1	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5			2260.3
Net Proc (P-1)	1527.2	461.7	571.3	689.1	633.1	512.9	580.5	472.0	372.7	189.3	453.5	6463.2
Initial Spares	21.4	9.5	13.4	9.7	9.7	14.8	23.4	25.2	25.3	25.3	113.9	291.6
Total Proc Cost	1548.6	471.2	584.7	698.8	642.8	527.7	603.9	497.2	398.0	214.6	567.4	6754.8
Fiyaway U/C	3.6	3.6	4.1	5.3	5.3	6.0	6.0	6.1	7.1	9.3		
Wpn Sys Proc U/C	4.0	4.2	4.7	5.7	5.7	6.9	7.0	7.1	8.8	11.7		

DESCRIPTION: The Abrams Tank Upgrade Program supports the Department of Army vision for the future. The Upgrade Program reconfigures M1 Tanks to the M1A2 configuration making it a more survivable and lethal tank. This includes the Commander's Independent Thermal Viewer (CITV), Improved Commander's Weapon Station (ICWS), Position Navigation (POS/NAV) equipment, Radio Interface Unit (RIU), Core Architecture, D. U. Armor, 120mm Gun and Nuclear, Biological and Chemical (NBC) protection. In FY99 2nd Generation Forward Looking Infrared (FLIR) and vehicle core electronic upgrades will be cut into production.

JUSTIFICATION: The Upgrade Program will modernize the U.S. Army's armor force to enhance the combat effectiveness of the Abrams Tank Fleet and maintain the key elements of the tank industrial base.

it P-5, \		Appropriation/ Budget Activity/Serial No:	dget Activity	Serial No:		2-1 Line Item	P-1 Line Item Nomenclature:	DAM (GA0750)		Weapon System Type:		Date:	Eshaiso, 2000
WTCV Cost Analysis		VEHS / 1 / Tracked Combat Vehicles	racked Com	bat Vehicles		ט פוויירטים ר	r Grande i ricos	(מה ומשה) ואויים				-	2007
	Ω		FY 98			FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	Οtλ	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	Ц	000\$	Each	\$000	\$000	Each	\$000	000\$	Each	000\$	000\$	Each	\$000
_ `	∢				366023 39784	120	3050 332	327431 56814	120	2729 470	247045 48918	120	3088 408
		_			23881	120	199	28502	120	238	18921	80	237
5. Transmission 6. Final Drive					1369	240	9	1909	240	8 8	1363	ν	957
7. Fire Control		,			1905 5116	120 18720	16	2630	120	22	1857 3603	80 12480	23
					1417	3840	72	1438	3840	42	972	52	45
-					14601	8 2 3	122	24384	128	203	16911		211
					915	120	1 00 0	929	128	1000	657	8 8	1000
-					1238	2 2	10	1277	120	11	392 895		11
16. Special Tools & Test Sets 17. System Technical Support (STS)					16458 40686			36945			10800 58877		
					5793			7349 7349			7447 7447		
20. Auxiliary Services 21. Engineering Support 22. Ouelity Support					2830 1023			7181 7181			7277		
					5136			6335 423			4450		
					9751	120	842	12995 88693	120	739	13248		702
					15172	120	126	15348	120	128	12201	80	153
Gross P-1 End Cost Less: Prior Year Adv Proc Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc					688209 259891 428318 260738	120	5735	680394 260738 419656 213406	120	5670	551828 213406 338422 174445	80	6898
Other Non P-1 Costs Initial Spares					6696			9713			14807		
TOTAL					698755			642775			527674		
	_												

									Date:		
	Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					F.	February 2000	0
Appropriation / Buc	Appropriation / Budget Activity/Serial No: PROCLIREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature:	nenclature:	2000/100	6	-
	Combat Vehicles						SINGS	ar divide	OVE INC	ľ	
WBS Cost Elements:	(18:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΔI	Unit Cost	Specs	Date Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$000	Now?	Avail	
1. Basic Vehicle	icle						-				
FY 99		GDLS/1	(7(4)	TACOM-Warren	Feb-99	Aug-99	120	3050	Yes		Jan 95
FY 00		GDLS/1	(2(2)	TACOM-Warren	Feb-00	Aug-00	120	2729	Yes		Jan 95
FY 01		GDLS/1	SS/FFP	TACOM-Warren	Feb-01	Aug-01	80	3088	Yes	<u>., </u>	Sep 99
2. Armor/3											
3		7/OOH	מפונים בוב	חטביא	90-08	Feb. 99	120	330	Ą		Ą
FY 98		LITCO/4		DOE/5	Jan-99	Feb-00	121	470	₹		₹
FY 01		LITCO/4	SS/CPFF	DOE/5	Jan-00	Feb-01	120	408	¥		₹
3 11/15/1											
FY 98		GDLS/1	Option	TACOM-ACALA	Mar-97	Feb-98	VAR	VAR	Yes		Feb 96
	!										
4. Engine Refurb/6	sturb/6								•		
FY 99		Allied/Signal/7	SS/FFP/C	SS/FFP/C TACOM-Warren	Feb-98	Feb-99	120	199	Yes	<u> </u>	Sep 97
FY 00		Allied/Signal/7	Option	TACOM-Warren	Jan-99	Feb-00	120	238	Yes	-	Sep 97
FY 01		Allied/Signal/7	Option	TACOM-Warren	Feb-00	Feb-01	8	237	≺es		Sep 97
5 Transmission	cis										
5											
FY 99		Allison Transmission Div/8	Option	TACOM-Warren	Feb-98	Feb-99	120	201	Yes		Dec 96
FY 00		Allison Transmission Div/8	Option	TACOM-Warren	Feb-99	Feb-00	120	208	Yes		Dec 96
FY 01		Allison Transmission Div/8	S/FFP/C	TACOM-Warren	Jul-00	Feb-01	8	236	×e×		Jun 99
									•		
REMARKS:			son Transm	8. Allison Transmission Div, GM Corp, Indianapolis, IN	olis, IN						
	/2. SS/FFP/M5										
		5									
	/5. Department of Energy		3								
	 Awards are against a Navy BOA Contract therefore no. AlliadSignal/Control & Accessories Tireson A7 	tract therefore no KFP issued only letter with new requirements inson A7	er with new r	requirements							

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	Exhibit P-5a, Budget Procurement nistory and Flaming	IIStory ar	na Flaming				-		abi dary zo	2
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Lype:	m lype:		P-1 Line Item	P-1 Line Item Nomenclature: ABRAMS U	nenciature: ABRAMS UPGRADE PROGRAM (GA0750)	AM (GA07	(20)	·
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ατν	Unit Cost	Specs Avail	Date I Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
6. Final Drive										
FY 99	LOC Performance, Inc/1	Option	TACOM-Warren	Dec-97	Feb-99	240	9	Yes		Apr 95
FY 00	LOC Performance, Inc/1	C/FFP	TACOM-Warren	Dec-98	Feb-00	240	89	Yes	_	May 98
FY 01	LOC Performance, Inc/1	Option	TACOM-Warren	Dec-99	Feb-01	160	o o	Yes		May 98
7. Fire Control							<u></u>			
FY 99	Hughes/2/Various	Various	TACOM-Warren	Var	Feb-99	120	16	Yes		Var
FY 00	Hughes/2/Various	Varions	TACOM-Warren	Var	Feb-00	120	22	Yes		Var
FY 01	Hughes/2/Various	Various	TACOM-Warren	Var	Feb-01	80	23	Yes		Var
8. Track										
FY 99	Goodyear Tire & Rubber/3	SS/FFP	ТАСОМ-Wагтеп	May-98		18720		Yes		Dec 97
FY 00	Goodyear Tire & Rubber/3	Option	TACOM-Warren	Mar-99	Feb-00	18720		≺es		Dec 97
FY 01	Goodyear Tire & Rubber/3	Option	TACOM-Warren	Mar-00	rep-01	12480		Yes		Dec 97
9. Roadwheels								•		
FY 99	B&C Corp/4	/5	TACOM-Warren	Jan-98	Feb-99	3840		Yes		Sep 95
FY 00	TBD	12	TACOM-Warren	May-00	Feb-00	3840		Ş ;		Sep 98
FY 01	TBD	/2	TACOM-Warren	Jan-00	Feb-01	2560		Yes		Sep 38
REMARKS: /1. Loc Performance, Inc, Plymouth, Mi /2. Hughes Aircraff, El Segundo, CA /3. Goodyear Tire & Rubber Co., Akron, OH /4. B&C Corp, Barberton, OH /5. Requirement Contract/FFP	НО									

		,						Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	History an	id Planning					F	February 2000	0
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles						ABRAMS I	ABRAMS UPGRADE PROGRAM (GA0750)	AM (GA07	20)	·
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	απγ	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
10. Gun Mounts										
FY 99	RIA/1	X R		Apr-98	Feb-99	09	42	Yes		¥
FY 00	RIA/1	× R		Mar-99	Feb-00	9	42	Yes		₹
FY 01	RIA/1	X R		Apr-00	Feb-01	40	45	×es		₹
11. Gun										
50 <u>71</u>	Motory & tolknotoly	Q/X		Mar-98	Feb. 99	120	122	\ \ \		Ą
FY 00	Watervijet Arsenal	X X		Mar-99	Feb-00	120	<u>8</u>	χes		₹
FY 01	Watervliet Arsenal	WR		Mar-00	Feb-01	80	211	Yes		₹
12. Driver's Night Viewer										
FY 99	CECOM NICP	REG		Sep-98	Feb-99	120	S.	Yes		₹
FY 00	CECOM NICP	REQ		Feb-00	Feb-00	120	9	Yes		₹:
FY 01	CECOM NICP	REQ		Feb-01	Feb-01	80	9	Yes		₹
13. Basic Issue Items										
FY 99	TACOM-ACALA	WR		Jun-98	Feb-99	120	80	Yes	-	₹
FY 00	TACOM-ACALA	WR		Feb-00	Feb-00	120	80	Yes		≨
FY 01	TACOM-ACALA	WR		Feb-01	Feb-01	8	ω	Χes		₹
REMARKS: /1. RIA, Rock Island Arsenal, Rock Island, IL produces 50% of gun mounts.	nd, IL produces 50% of gun mounts.									
The remainder are procured with the GDLS contract	e GDLS contract.									

Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	listory a	nd Planning				-	Date:	February 2000	00
Appropriation / Budget Activity/Serial No:		Weapon System Type:	ım Type:		P-1 Line Item Nomenclature:	lomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles						ABRAMS U	ABRAMS UPGRADE PROGRAM (GA0750)	AM (GA07	750)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αīγ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
14. MILSTRIPS/RIK										
	NA	REQ/WR		Various	Feb-99	120	7	Yes		¥
	NA:	REQ/WR		Various	Feb-00	120	7	Yes		≨ :
FY 01	NA	REQ/WR		Various	Feb-01	<u></u>	<u>, </u>	Yes		⊈ Z
15. VIS/1				,						
FY 99	Grumman/2	Option	CECOM	Apr-98	Feb-99	120	10	Yes		Sep 91
FY 00	Grumman/2	Option	CECOM	Aug-99		120	=	Yes	<u> </u>	Sep 91
FY 01	Grumman/2	Option	СЕСОМ	Apr-00	Feb-01	8	=	Χes		Sep 91
26. II Gen FLIR										
FY 99	Various	SS/FFP	CECOM	Nov-97	Feb-99	120	842	Yes		Sep 96
FY 00	Various	Option	CECOM	Dec-98	9 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	120	739	Xes:		Sep 96
FY 01	Various	Option	CECOM	66-von	rep-01	08 8	702	Yes		Sep 96
28. GDLS SEP-S/ISA										
FY 99	GDLS/3	/4(4)	TACOM-Warren	Feb-99	Aug-99	120	200	Ϋ́		¥ ک
FY 00	GDLS/3	/4(5)	TACOM-Warren	Feb-00	Aug-00	120	236	ĕ		¥ ک
FY 01	GDLS/3	SS/FFP	TACOM-Warren	Feb-01	Aug-01	<u>08</u>	275	≰ Ž		∢ Z
REMARKS: /1. VIS, Vehicular Intercommunication System /2. Grumman Aerospace Corp, Bethpage, NY /3. General Dynamics Land Systems, Warren, MI /4. SS/FFP/M5	ystem 9, NY arren, MI									
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- 02	NAME / LOCATION	Zi⊠		1-8-5		MAX.	÷		1	INTIAL				0	⊦	က			4	┝	17		Stat	es cab	able of	States capable of producing tanks.	ing tan	ks.	
	Lima Army Tank Plant, Lima, OH	10	H		10	25	22		ΙË	REORDER	ω			0	H	3			4	H	17		I AT	į. V	ardene	ndent »	op pu	tou	
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FY 00 / 01 BUDGET PRODUCTION SCHEDULE	JCTION	SCH	EDUL	щ				ABR		ABR	AMS L	ABRAMS UPGRADE PROGRAM (GA0750)	DE P	ROGR	AM (G	A0750	_				_					February 2000	2000		
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Exhibit P-40,	Budget Item Justification Sheet

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		Exhibit P-40, Budget I		tem Justific	tem Justification Sheet	:				February 2000		
Appropriation / Budget Activity/Sertal No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tre	acked Combat Vehicl	les				ABRAMS UPGRAI	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	PROC) (GA0750)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less PY Adv Proc												
Plus CY Adv Proc	546.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5	0.0		2097.4
Net Proc (P-1)	546.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5	0.0	0.0	2097.4
Initial Spares												
Total Proc Cost	546.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5	0.0	0.0	2097.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Advance procurement for long lead materials to support procurement for the Abrams Upgrade Program.

JUSTIFICATION: Without advance procurement funds, procurement of components, assemblies and raw materials to support procurement, long lead time would not be possible and would cause a break in production.

						First System Award Date:	ard Date:	۴	First System Completion Date:	npletion Date:		Date:		
Advance Procurement Requirements Analy	rements	Analy	rsis-Fund	sis-Funding (P-10A)	₹		Feb 00			Aug 00			February 2000	
Appropriation / Budget Activity/Serial No:							P-1 Line Item No	P-1 Line Item Nomenclature / Weapon System:	eapon System:					
PROCUREMENT OF WPNS & TRKD COMBT VEHS/I/TRACKED COMBAT VEHICLES	AS & TRKD CC	DMBT VEH	IS/1/TRACKED	COMBAT VEHIC	TES				ABRAMS UPG	RADE PROGE	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
								(\$ in Millions)	llions)					
		When												
	┖	Rqd											္	
	(mos)	(mos)	Pr Yrs	FY97	FY98	FY99	FY00	FY01	FY02	F¥03	FY04	FY05	Comp	Total
End Item Quantity:	•			120	120	120	80	80	80	43	24			
1. Basic Vehicle	18	9		142.3	6.4	17.5	10.8	10.5	9.3	1.8				239.1
1.1 Terminiation Liability					86.8	73.3	79.2	41.3	62.3	20.1	15.9			378.9
2. Armor	19	9		9.6	10.0	10.2	11.3	11.5	11.7	15.0				79.6
3. H/TEU	13	9		6.7										6.7
4. Engine Refurb	20	9		4.0	16.4	16.2	9.6	9.5	9.5	5.2				73.3
5. Transmission	19	9		23.4	24.1	25.0	16.9	17.1	17.5	9.6	5.5			139.0
6. Final Drives	16	9		4.1	1.4	1.9	4.1		4.1	0.0				10.2
7. Fire Control	16	9		38.3	1.8	2.6	1.8		1.9	-				50.0
8. Track	19	9		5.7	5.1	5.3	-3.6		3.7	2.0				30.3
9. Roadwheels	16	9		1.4	4.1	4.1	1.0		1.0	9.0				8.1
10. Gun Mounts	16	Ø		2.6	2.5	2.5	1.8			1.2				14.9
11. Gun	16	9		10.6	14.1	23.9	16.9	17.2		10.6				116.9
12. Driver's Night Viewer	13	9		0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.1			3.8
13. Basic Issue Items	16	9		0.8	0.9	0.9	0.7	0.7		0.4				5.3
14. MILSTRIPS/RIK	16	9		0.5	9.0	9.0	0.4	0.4		0.2				3.5
15. VIS	16	9		1.0	1.1	1.2	0.8	8.0		0.5	0.3			6.8
26. II Gen FLIR	20	80		9.0	84.3	77.5	53.5	52.3	51.6	27.6	_			371.4
29. GDLS SEP-S/ISA					2.2		3.3	2.9	2.8	7.5	0.8			13.5
		_												
Total Advance Procurement				258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5			1551.2

Description:

* PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.
ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.
PLT includes the 6 months requirement for components prior to tank delivery.

Advance Dromont Domiromente Analysis-Budget [listification (B.108)	1 2	Analycic-B	fundant friet	ification (P.	.40B)			Date: February 2000	2000
Advance Procurement nequil		Alialysis-L	and lafer	ן ווכמוווי	P-1 Line Item Nomendature / Weapon System:	Weapon System:			
		# 1 P. C. L. C. C. C. C. C. C. C. C. C. C. C. C. C.	or deliated to the second			ARDAMS LIDGRAD	AF PROGRAM (AD)	ABDAMS HIPGRADE PROGRAM (ADV PROC) (GA0750)	
PROCOREMENT OF WPINS & TRAD CMB1 VETS/ 1/ Hacked Collidar Vehicles	L NAD CIMO	VENS/ 1/ Hacker	COLLIDAL VEHICLES			(\$ in Millions)			
		Quantity			2000			2001	
	PLT	Per	Cnit		Contract	Total		Contract	Total
	(mos)	Assembly	Cost	Qty	Forecast Date	Cost Request	Qty	Forecast Date	Cost Request
End Item									
1. Basic Vehicle	18	-	0.1		80 Various	10.8	80	80 Various	10.5
1.1 Termination Liability			-						41.3
2. Armor	19	•	0.1	120	Jan 00	11.3	121	Jan 01	11.5
3. H/TEU	13						(
4. Engine Refurb	20	-	0.1				80		G. J.
5. Transmission	19		0.2			•	80		17.1
6. Final Drives	16	2	0.0		Mar 00		160	Dec 00	4.1
7. Fire Control	16	_	0.0		Various		8	Various	1.8
8. Track	19	156	0.0	_			12480		3.7
9. Roadwheels	16	32	0.0	2560			2560		0.1
10. Gun Mounts	16	_	0.0				40		1.8
11. Gun	16	_	0.2				80		17.2
12. Driver's Night Viewer	13	-	0.0	80			80		0.5
13. Basic Issue Items	16	_	0.0		Sep 00		80	Sep 01	0.7
	16	_	0.0		Various	0.4	80	80 Various	0.4
15. VIS	16	_	0.0				80		0.8
26. Il Gen FLIR	20	Ψ-	0.7		80 Dec 99	53.5	80	Nov 00	52.3
29. GDLS SEP-S/ISA						3.3			2.9
Total Advance Procurement						213.4			174.4

Description:

* PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.

ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.

PLT includes the 6 months requirement for components prior to tank delivery.

### ABRAMS UPGRADE P (\$ in Millions) 2001 2002 2003 2001 2002 2003 552 561 541 541 541 541 541 541 541 541 541 54	Advance Procurement Require	ements Ar	nalysis-Pre	esent Valu	lysis-Present Value Analysis (P-10C)	s (P-10C)					Date:	February 2000	
1230 SOT 1998 1999 2000 2001	Appropriation / Budget Activity/Serial No:					P-1 Line Item Non	nenclature / Weap	on System:					
1720 501 570 688 680 552 561 1999 1999 2000 2001 2002 2003	PROCUREMENT OF WPNS & T.	TRKD CMBT VEHS	3/1/Tracked Co	mbat Vehicles				ABRAMS U	PGRADE PROGF	ZAM (ADV PROC)) (GA0750)		
1230 501 570 688 680 552 561 191 122 123							(\$ in M	illions)					
1230 501 570 688 680 552 561 1513 565 619 723 685 534 541 1528 4462 571 689 6633 5513 581 1628 473 579 685 629 503 560 1948 521 620 724 638 496 537 298 -39 1 1 4 47 -39 20 336 40 1 1 47 -39 19 435 44 1 1 47 -38 18		Pr Yrs	1997	1998	1999	2000	2001	2002	2003	2004	2005	Сощр	Total
1528 462 571 689 633 513 581 1628 473 579 695 629 503 560 1948 521 620 724 638 496 537 298 -39 1 1 47 -39 20 336 -44 1 1 47 -38 19 435 -44 1 1 47 -38 18	Proposal w/o AP Then Year Cost Constant Year Cost Present Value	1230 1292 1513		·				561 541 519	568 537 501	380 352 320	281 255 225	452 377 298	6463 6356 6502
298 -39 1 1 1 47 -39 336 -40 1 1 47 -38 435 44 1 1 47 -38	AP Proposal Then Year Cost Constant Year Cost Present Value	1528 1628 1948							472 446 416	373 346 314	189 172 152	452 377 298	6463 6408 6664
Remarks:	AP Savings (Difference) Then Year Cost Constant Year Cost Present Value	298 336 435	64 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						-96 -91 -85	7- 9- 9-	-92 -83 -73		162
Remarks:													
	Remarks:												

Appropriation / Budget Activity/Serial No:							P-1 Line Item	P-1 Line Item Nomenclature / Weapon System:	Weapon Syster	Ë					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	WPNS & TR	KD CMBT \	/EHS / 1 / Track	3d Combat Vehi	cles		_		ABRAN	S UPGRADE F	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	V PROC) (GA	40750)		
								(\$ in Millions)	illions)						
				1998					1999			2(2000	20	2001
			Contract	Actual	Total	Actual		Contract	Actual	Total	Actual		Contract		Contract
	PLT		Forecast	Contract	Cost	Contract		Forecast	Contract	Cost	Contract		Forecast		Forecast
	(mos)	Qty	Date	Date	Request	Cost	Qty	Date	Date	Rednest	Cost	ğ	Date	ģ	Date
End Item															
1. Basic Vehicle	18		120 Various		5.4		120	120 Various		19.5		80	80 Various	88	80 Various
1.1 Termination Liability					86.8					73.3					
2. Armor	19	120	Feb 98	Jan 98		10.0	120	Jan 99	Jan 99	10.2	10.2	120	Jan 00	121	Jan 01
3. H/TEU	13														· -
 Engine Refurb 	20	120	Jan 98	Feb 98				66 unf		16.2	16.2				Feb 01
5. Transmission	19	120	Feb 98	Feb 98	•	2		Feb 99		.,	25.0			8	Jul 01
6. Final Drives	16	240	Jan 98	Jan 98	1.4	1.4		Dec 98	Dec 98			_	Mar 00	_	Dec 00
	16		120 Various		1.9		120	Var		2.6		80	80 Various	8	Vari
8. Track	19	18720	Apr 98	May 98	5.1		18720	Mar 99	Feb 99	5.3	5.3	12480	Mar 00	_	
9. Roadwheels	16	3840			1.4		3840	Feb 00		1.4		2560	Feb 00	25	
10. Gun Mounts	16	9		Apr 98		2.5	9	Apr 99	Mar 99						
11. Gun	16	120			14.1	14.1	120	Mar 99	Jan 99	.,	23.9				
12. Driver's Night Viewer	13	120					120	Feb 00		0.7		8			
13. Basic Issue Items	16	120		36 unf	6.0	0.9	120	Feb 00		0.9		80	Sep 00		Sep 01
	16	_	20 Various		9.0		120	120 Various		9.0		8	Varions	80	80 Various
15. VIS	16	120	36 unf	Apr 98	1.2	1.1	120	Aug 99	Aug 99		1.2		Apr 00		
26. II Gen FLIR	20	_	120 Various		ω		120			77.5		8	Dec 39	80	Nov 00
29. GDLS SEP-S/ISA				Sep 98	0.3	0.3									
					257.4	70.07				2620	159.0				

Description:

^{*} PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors. ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts. PLT includes the 6 months requirement for components prior to tank delivery.

Advance Procurement Requirements Analys	ent Redii	irements	Analysis	is-Obligations/Expenditures (P-10E)	ions/Exp	enditures	; (P-10E)				İ		Date:	February 2000	
Appropriation / Budget Activity/Serial No:	rial No:			200			_	P-1 Line Item N	omenclature / V	P-1 Line Item Nomendature / Weapon System:					
ad.	OCUREMENT	F WPNS & TR	KD CMBT VEH	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	Combat Vehicles	•				ABRAMS UP	GRADE PROC	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	(GA0750)		
							(\$ in Millions)								
							FY 98	88						Total	Ending
	Starting		1997						1998					Obl/Exp	<u> </u>
	Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cnm)	(Cum)
FY 99 Termination Liability Sche Total Expenditures	8														73.3
Termination Liability Sche	79.2												<u>-</u>		79.2
FV 01 Termination Liability Sche	41.3			420								and the second s			£.
Narrative: The requirements for all elements of cost are based on prior history and lead times. The procurement for the DECUs, Transmissions, Final Drives, Fire Control, Track, Roadwheels, VIS, II GEN FLIR are Firm Fixed Price Contracts and have no termination liability profile within the contract. The funding is required to purchase hardware in time to reduce the overall procurement leadtime of the M1A2 Abrams major end item.	uirements Roadwhe se hardwa	for all ek sels, VIS, re in time	ements of II GEN F to reduce	f cost are based on prior history and lead times. The procurement for the FLIR are Firm Fixed Price Contracts and have no termination liability profice the overall procurement leadtime of the M1A2 Abrams major end item.	based on irm Fixed all procur	prior histe Price Col ement les	ory and le	ad times. Id have π the M1A2	The prodestrainal	surement ion liabilit major enc	for the D y profile l item.	ECUs, Tr within the	ansmissio contract.	ns, Final The fund	Drives, ding is

Advance Procureme	ent Regu	irements	Analysis	-Obligati	ons/Expe	nditures	(P-10E)					ш	Date:	February 2000	
Appropriation / Budget Activity/Serial No:	al No:						_	P-1 Line Item Nomenclature / Weapon System:	menclature / W	eapon System:					
PRO	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	F WPNS & TRK	CD CMBT VEHS	/1/Tracked Co	ombat Vehicles					ABRAMS UP(RADE PROGR	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
						\$)	(\$ in Millions)								
							FY 99	66						Totai	Ending
	Starting		1998						1999					Obl/Exp	Balance
	Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cum)	(Cnm)
FY 99 Termination Liability Sche Total Expenditures	73.3			7.	7.	6.	ę.	2.3	t.4 6.	7.3	8. 9.	6. 9. 6. 9.	9.0	41.2	32.1
FY 00 Termination Liability Sche	79.2														79.2
FY 01 Termination Liability Sche	41.3														41.3
Narrative:															

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)	nent Requ	irements	Analysis	-Obligati	ons/Expe	nditures	(P-10E)		ļ. 				Date:	February 2000	
Appropriation / Budget Activity/Serial No:	rial No:		,	9			_	P-1 Line Item No	P-1 Line Item Nomenclature / Weapon System:	eapon System:					
Ą	OCUREMENT (OF WPNS & TR	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	/1/Tracked C	ombat Vehicles					ABRAMS UPC	RADE PROGR	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
						\$)	(\$ in Millions)								
							FY 00	00						Total	Ending
	Starting		1999						2000					Obl/Exp	Balance
	Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cum)	(Cum)
FY 99 Termination Liability Sche Total Expenditures	32.1	10.0	9.6	9.9										32.1	195.5
FY 00 Termination Liability Sche	79.2							3.6	4.4	7.8	8.9	10.1	9.7	44.5	34.7
FY 01 Termination Liability Sche	41.3									· · · · · · · · · · · · · · · · · · ·					41.3
Narrative:															

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)	ent Requ	irements	Analysis	-Obligation	ons/Exp€	anditures	; (P-10E)						Date:	February 2000	0
Appropriation / Budget Activity/Serial No:	ial No:						_	P-1 Line Item Nomenclature / Weapon System:	menclature / W	eapon System:					
PR	OCUREMENT C	F WPNS & TR	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	/1/Tracked Co	enbat Vehicles					ABRAMS UP	GRADE PROG	ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	C) (GA0750)		
						\$)	(\$ in Millions)								
							FY 01	01						Total	_
	Starting		2000						2001					Obl/Exp	Balance
	Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cnm)	(Cnm)
FY 99 Termination Liability Sche Total Expenditures													SS		195.5
FY 00 Termination Liability Sche	34.7	1.5 3.	10.4	12.8										34.7	
FY 01 Termination Liability Sche	41.3							3.0	3.7	6.7	7.6	8.6	8.3	37.9	3.4
Narrative:															

Particul line Particular	Advance Procurem	nent Redu	irements	Analysis	3-Obligati	ons/Expe	anditures	3 (P-10E)						Date:	February 2000	
ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0759) Total Ending	Advanced Budget Activity/Se	dal No.			100			_	P-1 Line Item N	omendature / W	Veapon System:					
Starting Starting	Appropriation 2 beinger Activity 50	POCHREMENT O	F WPNS & TR	KD CMBT VEHS	3/1/Tracked C	ombat Vehicles					ABRAMS UP	GRADE PROG	RAM (ADV PRC	C) (GA0750)		
Starting								in Millions)								
Starting Englance Cot Nov Doc Jun Apr Apr Apr Jun Jul Aug Sep (Com)								F	02						Total	╙
Balance Oct Nov Dac Jan Feb Mar Apr May Jun Jul Aug Sep (Cum) (Cum)		Starting		2001						2002					Obl/Exp	
y Sche 186.5 y Sche 3.4 2.3 1.1 - 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4		Balance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	(Cum)	(Cum)
34 2.3 1.1 3.4	FY 99 Termination Liability Schr Total Expenditures															195.
3.4 2.3 1.1	FY 00 Termination Liability Schr															·
Narrative:	FY 01 Termination Liability Schr														· · · · · · · · · · · · · · · · · · ·	
	Narrative:															

								Date:				
		Exhibit P-40, Budget	0, Budget It	em Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	.e.					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vet	CMBT VEHS / 1 / Tra	scked Combat Vehicles	Se			2	10DIFICATIONS LE	SS THAN \$5.0M (TC	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)		
Program Elements for Code B Items:	st:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	10.6	0:0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0:0	10.7
Initial Spares												
Total Proc Cost	10.6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7
Flyaway U/C												
Wen Svs Proc U/C												

DESCRIPTION: This funding provides for the procurement of hardware kits, their application, and fielding support costs of \$2.0M or less for Tracked Combat Vehicles.

JUSTIFICATION:
BATTLEFIELD COMBAT INDENTIFICATION SYSTEM: The Battlefield Combat Identification System (BCIS) is a millimeter wave Qustion and Answer system that will provide positive identification of friendly ground vehicles to minimize battlefield fractricide and enhance combat effectiveness. The BCIS is a designated Army Horizontal Technology Integration (HTI) initiative. Starting in FY00 BCIS are required for the M88A1 Recovery Vehicle through PM Combat ID.

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								Date:				
		Exhibit P-40, Budget		Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomendature:	re:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	CMBT VEHS / 1 / Tre	cked Combat Vehich	88				ITEMS LESS TI	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)	TCV) (GL3100)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Otty												
Gross Cost	17.5	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	18.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.5	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	18.5
Initial Spares												
Total Proc Cost	17.5	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	18.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is essential for effective maintenance on all tracked vehicles.

JUSTIFICATION: Required to provide organizational maintenance personnel with equipment essential to maintain full tracked vehicles in an acceptable state of readiness. Funding of this program will establish and maintain the operational capability of the Bradley Fighting Vehicle, M1 Tank, etc.

	_	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CN	dget Activity, T OF WPNS	/Serial No:		P-1 Line Iten ITEMS LE	P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (TCV-WTCV)	(TCV-WTCV)		Weapon System Type:		Date: Febr	February 2000
WICV COSt Alialysis		VEHS / 1 / Tracked Combat Vehicles	racked Com	bat Vehicles			(GL3100)						
	Q		FY 98			FY 99			FY 00			FY 01	
Cost Elements	S	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
1. Shop Set, Contact and Emergency Repair 4940-00-754-0737					28	7	41						
2. Tool Set, Full Tracked Vehicle, Org Maint, Suppl 2					61	ω	80	137	9	14	135	0	15
					•				÷ ***				
							İ						
									•				
Total					89			137			135		
]												

					Total Prog		1535.8		1535.8		1535.8	
					To Complete		0.0		0.0		0.0	
	February 2000		WTCV) (GA0050)		FY 2005		10.6		10.6		10.6	
			PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)		FY 2004		10.4		10.4		10.4	
Date:			PRODUCTION BA		FY 2003		9.6		6.6		9.9	
		.e.			FY 2002		10.0		10.0		10.0	
		P-1 Item Nomenclature:		ım Elements:	FY 2001		9.3		9.3		9.3	
	ition Sheet			Other Related Program Elements:	FY 2000		8.8		8.8		8.8	
	iget Item Justification Sheet		88	Code:	FY 1999		9.7		9.7		9.7	
	0, Budget It		icked Combat Vehicl		FY 1998		8.3		8.3		8.3	
	Exhibit P-40, Bud		CMBT VEHS / 1 / Tra		FY 1997		9.0		9.0		9.0	
		erial No:	ENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	10	Prior Years		1449.7		1449.7		1449.7	
١		eria	Ä	ems:	Г	Г	Γ			Γ		1

PROCUREMEN pram Elements for Code B Iten

Less PY Adv Proc Plus CY Adv Proc

Proc Qty Gross Cost Net Proc (P-1)

iation / Budget Activity/S

Army. It provides Production Support Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment, real property used in production and DESCRIPTION: This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish, modernize, expand or replace facilities owned by the production testing of Weapons and Tracked Combat Vehicles. This program also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment for the portions of plants which are no longer required for active production.

Wpn Sys Proc U/C

Flyaway U/C

otal Proc Cost

Salt Bath located at Scranton. Also, funding will be used for packing, crating, handling & transportation of Government owned Equipment retained for future production. Muskegon, MI. and Scranton, Pa. Included are rehab of a Vertical/Horizontal Mill Machines, purchase Heat Recovery Units, Coal Conveyor Belt at LATP and rebrick unscheduled/unplanned emergency repairs of Government owned production machinery, equipment and facility items currently in use at the contractor plant in JUSTIFICATION: The FY01 request supports PSR to Government owned equipment at Lima Army Tank Plant (LATP) and replace and rehabilitate

it P-5, \	_	Appropriation/ Budget Activity/Serial No:	idget Activity.	/Serial No:		P-1 Line Item	P-1 Line Item Nomenclature: PRODI ICTION BASE SUPPO	P-1 Line Item Nomenclature: PRODITION BASE SUPPORT (TCV-WTCV)		Weapon System Type:		Date: Februa	February 2000
WTCV Cost Analysis		VEHS/1/T	VEHS / 1 / Tracked Combat Vehicles	bat Vehicles			(GA0050)		1				
	₽		FY 98			FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	ģ	UnitCost	TotalCost	Otty	UnitCost	TotalCost	Ωŧλ	UnitCost	TotalCost	Qţ	UnitCost
	Ħ	\$000	Each	000\$	000\$	Each	\$000	000\$	Each	000\$	\$000	Each	\$000
49X4281 LIF, Layaway/Redistribution Various Government & Contractor Facilities Provides for plant clearance and restoration of those areas no longer required for active production. Packing, crating, handling & transportation GFE retained for future prod.					338			351			344		
Provides non-routine maintenance of real property facilities, I.P.E. purchase & rehab. of production equipment. Machinary consist of Welding, Milling and Shot Blast Machines. Project also provides for Plant Utilities. Provides replacement/rehab of government owned equipment at contractor plants. Also, project covers Unplanned Repairs of equipment and Unplanned Regulatory Requirements. Work is to be performed at Lima Army Tank Plant, Scranton and Muskegon facilities TOTAL					9332			8501			9068		
					9670			8852			9250		

		Exhibit P-40, Budget		em Justifica	Item Justification Sheet		_	Date:		February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	.e.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMB1	VEHS / 2 / Weapon	s and Other Combat	Vehicles				ARMOR MACHINE	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	SERIES (G13000)		
Program Elements for Code B Items:	Š:			Code:	Other Related Program Elements:	am Elements:						
				4								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv	49876	2034	1500	1198	4297	1196	752	818	1072	728		63471
Gross Cost	183.3	18.4	14.4	11.4	38.4	12.4	8.1	8.4	11.1	11.1	0.0	317.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	183.3	18.4	14.4	11.4	38.4	12.4	8.1	8.4	11.1	11.1	0.0	317.1
Initial Spares												
Total Proc Cost	183.3	18.4	14.4	11.4	38.4	12.4	8.1	8.4	11.1	11.1	0:0	317.1
Flyaway U/C												
Who Sve Broc 11/C												

permits rapid changing of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the DESCRIPTION: The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintlebarrel, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjuction with a traversing mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which and elevating mechanism and a flex mount pintle. The FY97 thru FY05 buys the M240B configuration in the Armor Machine Gun Series.

JUSTIFICATION: The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles, and fortified positions.

Cost Elements Co	TotalCost Carbon Scool Scool Scool Control Con	Py 98 Otty	ar Combat		S FY 99	SERIES (G13000)	- 1	20 22				•
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 Quality Assurance (ARDEC) Integrated Logistics Support Engineering Change Proposals 				987			1004			786		
 Integrated Logistics Support Engineering Change Proposals 					-		96	J****		122		
5. Engineering Change Proposals				62			91			93		
				161			545			204		
6. Testing	·				<u> </u>	•		**		300		
7. Fielding				440	<u></u>		565			357		
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TOTAL				11399			38364			12449		

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	Other Combat Vehicles										Ī
WBS Cost Elements:		Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	Σď	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
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		FN Manuf Inc., Columbia, SC	SS/FFP M-3(3)	TACOM - Rock Island	Jul-99	Aug-00	525	o,	Yes	2	
FY00		FN Manuf Inc., Columbia, SC		TACOM - Rock Island	Dec-99	Nov-00	438	80	Yes	S	
		FN Manuf Inc., Columbia, SC	Option	TACOM - Rock Island	Dec-99	Feb-01	2678	80	Yes	8	
		TBS	C/FFP	TACOM-Rock Island	Sep-00 May-02	May-02	1181	10	Yes	S Z	
FY01		TBS	Option	Option TACOM-Rock Island	Dec-00 May-03	May-03	1196	o	Yes	Š	· · · ·
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REMARKS:	The M240 contract was established as a 3-year multiyear contract (FY97,99,00)	3-year multiyear contract (FY97,99,00									

The M240 contract was established as a 3-year multiyear contract (FY97,99,00).

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	UCTI	ON SC	HEDUI	Щ			<u> </u>	F-1 Item Nomenciature. ARMOR MAC	ARM	niendamie. ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	CHINE CHINE	GUN	, 7.62	MM M2	:40 SE	RIES	(6130	6				Gara				February 2000	Iry 200	0		
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Exhibit P-40,	Budget Item Justification Sheet

								Date:				
		Exhibit P-40, Budget		tem Justification Sheet	ation Sheet					February 2000	·	
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMENT OF \	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Comba	VEHS / 2 / Weapons	s and Other Combat	at Vehicles				MACHINE	MACHINE GUN, 5.56MM (SAW) (G12900)	(G12900)		
Program Elements for Code B Items:	Š.			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv	66137	3802	406	1525	3698						4280	79848
Gross Cost	165.8	12.0	3.4	5.7	9.6	0.0	0.0	0.0	0.0	0.0	18.1	214.8
Less PY Adv Proc												
Plus CY Adv Proc		•										
Net Proc (P-1)	165.8	12.0	3.4	5.7	6.6	0.0	0:0	0.0	0.0	0.0	18.1	214.8
Initial Spares												
Total Proc Cost	165.8	12.0	3.4	5.7	9.6	0.0	0.0	0.0	0.0	0.0	18.1	214.8
Fiyaway U/C												
Won Svs Proc U/C												

DESCRIPTION: The Squad Automatic Weapon (SAW) is a lightweight (22 pounds with 200 rounds of ammunition), 5.56mm, one-man operated weapon capable of delivering a sustained volume of automatic, accurate, and lethal fire at ranges of up to 800 meters. The Army configuration was changed Oct 89 to include a spare barrel, additional heat shield and barrel bag. JUSTIFICATION: The sustained fire capability and increased range are urgently needed throughout infantry rifle squads in order to enhance their survivability. This lightweight, highly mobile machine gun will be used by infantry, light infantry, airborne infantry, mechanized infantry and elements of the air cavalry units, as well as non-infantry units. This procurement profile will equip selected elements of the above mentioned units on a priority basis.

Exhibit P-5, Weapon WTCV Coef Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CI	udget Activity	get Activity/Serial No: OF WPNS & TRKD CMBT		P-1 Line Item MACHINE (P-1 Line Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)	3AW) (G12900)	-	Weapon System Type:		Date: Febr	February 2000
3		VEHS / 2 / Weapons and Other Combat	eapons and	Other Combat									
	₽		FY 98			FY 99			FY 00			전	
Cost Elements	CD	TotalCost	Qfy	UnitCost	TotalCost	Qţ⁄	UnitCost	TotalCost	Qţ	UnitCost	TotalCost	ğ	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
1. Hardware	∢		1.71		4444	1525	က	8596	3698	2		**	
2. GFM													
3. Engineering Support (In-House)					64			185	,				
4. Quality Assurance (ARDEC)					35			09					
5. Testing (TECOM)					09			100					
6. Engineering Change Proposals (ECP's)					24			116					
7. ILS					40			75					
8. Fielding					763			771					
9. Engineering Study					235								
TOTAL					5665			9903					

Exhibit P	Exhibit P-5a Budget Procurement History and Planning	listory ar	nd Planning					Date:	February 2000	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		2-1 Line Item !	P-1 Line Item Nomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles						MACHINE	MACHINE GUN, 5.56MM (SAW) (G12900)	AW) (G129		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	αII	Unit Cost	Specs Avail		RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Hardware FY99	FN Mfg Co., Inc., Columbia SC	SS/FFP OPTION	TACOM- Rock Island	Nov-98	Aug-99	1525	က	Yes	<u>8</u>	
FY00	FN Mfg Co., Inc., Columbia SC	SS/FFP OPTION	TACOM-Rock Islan	Jan-00	Mar-00	3198	2	Yes	2	_
	TBS	TBS	TACOM-Rock Island	Apr-00	Mar-01	200	2	Yes	2	
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REMARKS:										

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Appropriation / Budget Activity/Serial No:	i No:					P-1 Item Nomendature:	;e					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	VEHS / 2 / Weapons	and Other Combat	Vehicles				GRENADE LAUNC	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	MK19-3 (G13400)		
Program Elements for Code B Items:	.s.			Code:	Other Related Program Elements:	эт Elements:						
				∢								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Otv	13403	2150	400	269	1389	581	772	195				19587
Gross Cost	214.2	33.0	7.7	15.1	22.9	11.8	15.2	13.7	0.0	0.0	0.0	333.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	214.2	33.0	7.7	15.1	22.9	11.8	15.2	13.7	0.0	0.0	0.0	333.5
Initial Spares												
Total Proc Cost	214.2	33.0	7.7	15.1	22.9	11.8	15.2	13.7	0.0	0.0	0.0	333.5
Flyaway U/C												
Office Care Days												

rounds per minute. It will engage point targets up to 1,500 meters and provide suppressive fire up to 2,200 meters. Component items for this system include the 40mm asssembly group 1 and the MK64 mount. DESCRIPTION: The MK19, Mod 3 is a self-powered, air-cooled, blowback, 40mm automatic grenade launcher capable of a cyclic rate of 325-375

reduce critical supply position for high-priority equipment readiness code (ERC) A shortages in Europe, Korea, and CONUS requirements. The Universal Pintle Adaptor is being incorporated on the MK64 Mount to improve the accuracy and dispersion of the MK19-3 when used on the HMMWV application. JUSTIFICATION: The weapon will be mounted on the High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), the Armored Personnel Carrier family of vehicles and the M88A1 Recovery Vehicle. During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount. It will replace select M2 cal .50 and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. Procurement will help

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CI	udget Activity	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT		P-1 Line Item GRENADE L	P-1 Line Item Nomenclature: GRENADE LAUNCHER, AUT	P-1 Line Item Nomenclature: GRENADE LAUNCHER, AUTO, 40MM, MK19-	>	Weapon System Type:		Date: Februa	February 2000
	٦	VEHS / 2 / W	eapons and	Other Combat			3 (G13400)						
	₽		FY 98			FY 99		ŀ	FY 00			FY 04	
Cost Elements	S	TotalCost	Qty	UnitCost	TotalCost	Q.	UnitCost	+	Q.	UnitCost	TotalCost	Q.	UnitCost
		000\$	Each	\$000	000\$	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
1. Hardware MK64 ERC A Mounts	∢				10838 1073	697 853	9 +	21075	1389	15	9756	581	17
2. Round Removal Tool (GFM)								174			99		
3. Engineering Support (In-House)					976			888			1303		
4. Quality Assurance (ARDEC)		,						09			83		
5. Integrated Logistics Support (ILS)					155			194			186		
6. Engineering Change Proposals (ECP's)					1495			31			98		
7. Engineering Studies													
8. Testing (TECOM)					325			300		,	194		
9. Fielding					202			161			161		

TOTAL					15064			22883			11835		
	4												

Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning					Date:	February 2000	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	tomenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles					GRE	NADE LAUNG	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	IM, MK19-	3 (G13400)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΩTY	Unit Cost	Specs Avail		RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Hardware FY99	SACO Defense, Saco, Maine	SS/FFP - M-3(2)	TACOM - Rock Island	Dec-98 Dec-98	Jul-00 Aug-00	138	9 9	Yes	22	
FY00	SACO Defense, Saco, Maine	SS/FFP M-3(3)	TACOM - Rock Island	Dec-99	Feb-01	489	15	Yes	2	
	SACO Defense, Saco, Maine	Option	TACOM - Rock Island	Dec-99	Jul-01	006	5	Yes	8	
FY01	SACO Defence, Saco, Maine	SS/FFP W/Option	TACOM - Rock Island	Mar-01	Apr-02	581	17	Yes	8	
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		Exhibit P-40, Budget	10, Budget II	tem Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	ial No:					P-1 Item Nomendature:	re:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	rVEHS/2/Weapon	s and Other Combat	Vehicles				-	M16 RIFLE (G14900)			
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
				∢					:			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	542667	15583	11297	16464	12479	10314	3416	6557	20475	19571	202	679415
Gross Cost	247.7	6.4	4.4	6.8	5.7	4.8	2.0	3.1	9.4	9.2	9.9	309.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	247.7	6.4	4.4	6.8	5.7	4.8	2.0	3.1	9.4	9.2	9.9	309.4
Initial Spares												
Total Proc Cost	247.7	6.4	4.4	6.8	5.7	4.8	2.0	3.1	9.4	9.2	9.6	309.4
Flyaway U/C												
Wan Sun Desc 11/0												

combination with the M5 adapter rail forms the Modular Weapon System (MWS) which provides soldiers the flexability to configure their weapons with those accessories currently fielded M16A2 Rifle, with the exception that the upper receiver contains an integral mounting rail with a detachable carrying handle/rear sight. The M16A4 in DESCRIPTION: The M16A4 Rifle is a 5.56mm gas operated, magazine fed weapon capable of firing either semiautomatic or three-round burst. It is identical to the required to fulfill an assigned mission.

of the M4 Carbine and the M16A2 Rifle. This was to be accomplished by providing multiple mounting surfaces on the M4 and M16A2 to allow a combination of various JUSTIFICATION: The M16A4 Rifle was developed as part of the Modular Weapon System (MWS) Program. The U.S. Army identified a need to improve the versatility capability on the rifle. Future production of the rifle will be in the M16A4 configuration. Funding in FY01 is to provide continuous production and to support the current accessories to be simultaneously mounted on the weapons. The M4 Carbine already contained an integral rail on the upper receiver. The M16A4 provides the same MWS fielding schedule. A total of 116,848 M16A1's have been converted to M16A2's lowering the "to complete" quantity to 20,592.

FY 00 ptalCost	Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	dget Activit	y/Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature: M16 RIFI F (G14900)	(00-		Weapon System Type:		Date: Februs	February 2000
CPs) Corp. CPs) Corp. Corp	WTCV Cost Analysis		VEHS / 2 / W	eapons and	Other Combat				(222					
CP-6) CD TrailCost Oby UnifCost TrailCost TrailCost Oby UnifCost TrailCost Oby UnifCost Oby UnifCost Oby UnifCost Oby UnifCost Oby Object Obj		Ω		FY 98			FY 99			FY 00			FY 01	
CPs) A \$000 Each \$000 Eac	Cost Elements	CO		ð	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Oty	UnitCost	TotalCost	Oty	UnitCost
OPs) A 562 15/21 0.335 0.425 0.408 4210 10314 CPs) CPs) A 662 15/21 0.335 0.425 0.408 4210 10314 CPs) A 763 0.425 0.425 0.408 4210 10314 A 764 0.408 1.20 0.40		Ц	ш	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
CPs) 133 247 112 30 30 30 30 30 46 46 46 46 46 46 46 46 46 46 46 46 46	1. Rifle (Includes Slings & Magazine)	∢		11		5852 571			5094					0.408
CPS) 215 216 46 46 476 476 476 4777 6774	2. Engineering Support (In-House)					133	· · · ·		247			180		
215 46 46 190 215 719	3. Engineering Change Proposals (ECP's)								112			62		
215 190	4. Quality Assurance (ARDEC)								30			75		
ng 190	5. Integrated Logistics Support (ILS)								46			02		
6172	6. Fielding					215			190			196		
6172														
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Exhibit !	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					F.	February 2000	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and						4	M16 RIFLE (G14900)	00)		
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	ΩTY	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	_		
1. Rifle (Includes Slings and Magazines)										
FY99	Colt's Mfg Co., Inc. Hartford, CT	Option	TACOM - Rock Island	Jan-99	Mar-00	15121	0.387	Yes	2	
	TBS		TACOM - Rock Island	Apr-00	Feb-02	1343	0.425	Χes	€	
FY00	TBS	C/FFP	TACOM - Rock Island	Apr-00	Apr-02	12479	0.408	Yes	2	
FY01	TBS	Option	TACOM - Rock Island	Jan-01	Apr-03	10314	0.408	Yes	<u>8</u>	
REMARKS:										

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	ICTION	SCH	EDULE				ווכניי		100	j 5	Σ	M16 RIFLE (G14900)	E (G	4900)							<u> </u>	Calc.				February 2000	2000			_
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Exhibit P-40,	Budget Item Justification Sheet
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								Date:				
		Exhibit P-40, Budget I	_	tem Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ITÐ:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	WPNS & TRKD CMBT	VEHS / 2 / Weapons	s and Other Combat	Vehicles				XM107, CA	XM107, CAL. 50 SNIPER RIFLE (G01500)	: (G01500)		
Program Elements for Code B Items:	ış:			Code:	Other Related Program Elements:	am Elements:						
				83								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						230	162					392
Gross Cost	0.0	0.0	0.0	0.0	1.1	3.1	2.1	0.0	0.0	0.0	0.0	6.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	1.1	3.1	2.1	0.0	0.0	0.0	0.0	6.4
Initial Spares												
Total Proc Cost	0.0	0.0	0:0	0.0	1.1	3.1	2.1	0.0	0.0	0.0	0.0	6.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The XM107 is a caliber .50, sniper rifle. The primary mission of this rifle is to engage and defeat materiel targets out to ranges of 1,700 and 2,000 meters. The secondary role is anti-personnel and Explosive Ordnance Disposal (EOD) at shorter ranges.

JUSTIFICATION: Current Army Sniper system, M24, 7.62mm, has limited range and low deposition of energy on target. The M24 is not effective against materiel targets past 800 meters. The curent M24 is not effective in Explosive Ordnance Disposal. The FY 01 procurement will enable the soldier to engage and defeat materiel targets out to ranges of 1,700 and 2,000 meters.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT	dget Activity/ r OF WPNS	Serial No: & TRKD CMBT		P-1 Line Ite XM107, C	P-1 Line Item Nomenclature: XM107, CAL. 50 SNIPER RIFLE (G01500)	IFLE (G01500)		Weapon System Type:		Date: Febru	February 2000
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3. Testing		_						33			350		-
4. Integrated Logistical Support								35			70		
5. Fielding											20		
6. ECPs										1.44	140		
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Exhibit P-5, Weapon System Cost Analysis

	Exhibit P	Exhibit P-5a. Budget Procurement History and Planning	listory an	nd Planning					Date: Fet	February 2000	
Announciation / Budget Activity/Carial No.			Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	omenclature:			1	
Appropriation / budget Activity/Serial no: PROCUREMENT OF WHONS & TRKD CMBT VEHS / 2 / Weapons and Other Combail Vehicles	/2/Weapons and	- <u>"</u>					XM107, CA	XM107, CAL. 50 SNIPER RIFLE (G01500)	LE (G01500	(6	
WBS Cost Elements:		Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αīγ		Specs Avail F	Date RF Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$000	_	Avail	
Hardware FY01 Waapon Laser Protector & Anti-Reflection Device		Barrett Firearms Mfg., Christian, TN TBS	C/FFP C	ARDEC ARDEC	Jan-01 Jun-01	Jul-01 Jul-01	230	80		ω¬	Sep 97 Jul 00
REMARKS: Solicitation issued in Sep 97 included production options for	97 included pro	duction options for FY01 and FY02.									

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P-1 Item Nomenclature:

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet					February 2000		
iation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	.93				:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	APNS & TRKD CMBT	VEHS / 2 / Weapon:	s and Other Combat	Vehicles		:		5.56	5.56 CARBINE M4 (G14904)	04)		
Elements for Code B Items:	iS:			Code:	Other Related Program Elements:	am Elements:						
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roc (P-1)	38.0	6.5	4.2	4.2	5.3	5.2	0.0	0.0	0.0	0:0	21.2	84.5
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ogram Elements for Code B Items:

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Flyaway U/C

DESCRIPTION: The M4 Carbine is a 5.56mm gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and will capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality replace all M3A1 WWII era .45 cal Submachine guns, and selective M16 series rifles and M9 pistols. It provides the individual soldier operating in close quarters the with the M16A2 rifle.

JUSTIFICATION: The M4 Carbine will provide soldiers with a compact, light-weight weapon that can provide better self protection and additional firepower in close quarters. The FY01 program will allow for the uninterrupted fielding of the M4 Carbine to Army units. Procurement is necessary to achieve the Army Procurement Objective (APO) for the M4 Carbine.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CI	Sudget Activity NT OF WPNS	get Activity/Serial No: OF WPNS & TRKD CMBT		P-1 Line Iterr 5.56	P-1 Line Item Nomenclature: 5.56 CARBINE M4 (G14904)	314904)		Weapon System Type:		Date: Febru	February 2000
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2. Engineering Support - In House Support					424			278			316		
3. Engineering Change Proprosals (ECP's)					161			91			50		
4. Quality Assurance (ARDEC)								75			75		
5. Integrated Logistics Support (ILS)					75			75			75		
6. Fielding/Transportaion					246			215			320		
7. Engineering Study													
TOTAL					4194			5286			5190		
	4												

TACOM - Rock Island Feb-99 Apr-00 3684 1 Yes No TACOM - Rock Island Jan-00 Jul-01 8687 1 Yes No TACOM - Rock Island Jan-01 Mar-02 8309 1 Yes No
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		1415	0	MAX		REACHED	Number		I VI E II VI		T	Pri	Prior 1 Oct.	╁	Affer	After 1 Oct.	+	Affer 1 Oct.	ë	4	After 1 Oct.	j Ö	ة ج ة ك	multi-y 97. p	ear co	ntract o a m	was a	A multi-year contract was awarded in Oct 97, providing a minimum sustaining	d in sinina
	+	Willy.	ç Ç		+	Τ.	-	Ì	INI INI	1,			٠	\dagger		, ا	+	<u> </u>		4	2 7		rate	of 50	0 wea	bous	Der mo	rate of 500 weapons per month. Funded	pepur
1 Coirs Mrg Co. inc	+	C'O	7		╀	٥		Ϋ́	Z Z	إ	I		,	\dagger		,	╀	2		╀	1	ı	· B	very s	chedu	e and	MFR.	delivery schedule and MFR leadtimes	Jes
					_	П		RE	REORDER	2				H			Н			Ц			e X	ended duction	extended to main production rates.			extended to maintain continuity in production rates.	
						T		Ξį	INITIAL					+			+			4		İ				:			
	+	1		$\frac{1}{1}$	$\frac{1}{1}$	†		NE RE	REORDER		Ţ			†			+			4	l	l							
	_	İ		ł	╀	Τ		W.	REORDER	Cr.				T			+												
	Н				Н	П			INITIAL		\prod			H			Н			Ц									
	4	1		\exists	\dashv	٦		Ë	ORDE	اي				1	ı		4			4		ı	_	i	ı	١	١	l	

P-1 Item Nomenclature:

Exhibit P-40,	Justification Sheet
	Item
	udaet

								Date:				
		Exhibit P-40, Budget	0, Budget It	Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VEHS / 2 / Weapon	s and Other Combat	Vehicles	-			MARK-18	MARK-19 MODIFICATIONS (GB3000)	GB3000)		
Program Elements for Code B Items:	:S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	2.0	1.8	2.0	2.7	3.9	3.9	0.0	15.0
Less PY Adv Proc												
Plus CY Adv Proc		-										
Net Proc (P-1)	0:0	0:0	0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	0.0	15.0
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	0.0	15.0
Fiyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Adjustable Sight Bracket (ASB), when attached to the MK19 Grenade Machine Gun will provide a mounting interface for various night vision devices. JUSTIFICATION: The ASB adjusts to allow the fire control to maintain a line of sight to target out to max range while the weapon is elevated to engage targets. The FY 00/01 procurement allows for the mounting of Night Vision Devices on the weapon. The bracket in conjunction with Night Vision devices will result in reduced target acquisition time.

Post Ideas Post Ideas Post	Exhibit P-40M Budget	0M Budget It	em Justific	Item Justification Sheet			Date		February 2000		
Principal Fig. Prin	Appropriation / Budget Activity/Serial No.				P-1 Item Nomenciatu	ire					
Control of Name Code Control of Name Code Control of Name Code Co	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapon	ns and Other Combat V	ehicles				MARK-1	9 MODIFICATIONS	(000895)		
Classification Fry 1998 Fry 1999 Fry 2000 Fry 2001 Fry 2004 Fry	Program Elements for Code B Items			Other Related Progn	am Elements						
Classification FY 1998 FY 2000 FY 2000 FY 2004		Fiscal Years									
Operational 0.0 0.0 2.0 1.8 0.7 2.7 0.0 0.0 2.0 1.8 0.7 2.7 0.0 0.0 2.0 1.8 0.7 2.7	Classification	FY 1998		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
0.0 0.0 2.0 1.8 0.7 2.7	able Sight Brad	0:0	0.0						3.9	5.7	20.7
	Totals	0.0	0.0						3.9	5.7	20.7

					QN	VIDUAL	INDIVIDUAL MODIFICATION	CATION							Date		February 2000	2000	٦
MODIFICATION TITLE:	Adjustable Sight Bracket TBD1	ble Sig	ht Brac	ket TB	101														
MODELS OF SYSTEMS AFFECTED: MK19 Grenad	S AFFECTEI): MK1	Grenade	le Machine Gun	e Gun														
DESCRIPTION / JUSTIFICATION:	IFICATION:																		
The Adjustable Sight Bracket (ASB), when attached to the MK19 Grenade Machine Gun will provide a mounting interface for various night	Sight Brac	ket (AS	B), wh	en atte	ched 1	o the l	JK19 6	renad	e Mac	hine G	un wi	II provi	de a n	ountin	g inter	ace for	various	night	
vision devices. The ASB adjusts to allow the fire control to maintain a line of sight to target out to max range while the weapon is elevated to	The ASB ac	djusts t	o allow	the fir	e conti	ol to n	aintair	a line	of sig	ht to ta	arget c	out to r	nax rai	nge wh	ile the	меаро	ı is elev	ated to	0
engage targets. The ASB in conjunction	I Ne ASB II	n conju	nction		gnt vi:	sion de	With Night Vision devices will result in reduced target acquisition time.	VIII res		eance	ı targe	म बद्धा	IISIIIOU	illie.					
		 							9				۲	Į F					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	rus / Major	OEVEL)	OPMENT	MILES	TONES:		ፓ	PLANNED	ה ה				۲	AC I UAL					
Materiel Work Order Production Contract Award	der act Award						2000 4000	2000 ‡000											
First Production Delivered First Unit Equipped	Delivered ed						3001 4001	2.5											
Installation Schedule:								-				-							
	Pr Y	<u></u>	FY 1999		Ī	FY 2000	- 1	+	-	FY 2001	- 1	+		FY 2002		,	FY 2003		Ţ
4	Totals	-	2 3	4	-	7	8	4	-	7	m	4	-	7	2	4 L	7	7	4
Inputs Outputs																			
	L	FY 2004			FY 2005	005			FY 2006	ا	\vdash		FY 2007			To		Tol	Totals
	1	2	3 4	1	2	3	4	-	2	3	4	F	2	8	4	Complete			
Inputs Outputs																			
METHOD OF IMPLEMENTATION:	ENTATION:	Field,	Field Application	L	ADMINI	STRATI	ADMINISTRATIVE LEADTIME:	TIME:		5 Mo	Months	H.	ODUCT	ION LE/	PRODUCTION LEADTIME:	12	Months		
Contract Dates:		FY 1999 FY 1999	66 66			u u	FY 2000 FY 2000	ต่∃	SEP 00 JUN 01			<u></u> ፚ	FY 2001 FY 2001	MAR 01 FEB 02	۲۵ 20				
																			1

			NDIVIDUA	INDIVIDUAL MODIFICATION	NO.			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	Adj	justable Sigh	Adjustable Sight Bracket TBD1	7						
FINANCIAL PLAN: (\$ in Millions)	7.7.4000									
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Oty \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$	Oty \$	Oty \$	Oty \$	Otty \$
RDT&E PROCUREMENT	0.473				:					0.473
Quantity			1594	1601	457	2538	3650	3646	4514	18000
Installation Kits										
Installation Kils, Norliecuring Hardware			1.426	1.403	0.406	2.377	3.559	3.497	4.966	17.634
			9		0	0 260	0.250	0.250	0 500	2 225
Engineering Support			0.429	0.500						
esung			200							
Integrated Logistical Support			0.060	0.060	0.060	0.060	0.090	0.080	0.120	
Fielding			0.00							
Installation of Hardware FY 1998 & Prior Eqpt – Kits FY 1999 Eqpt – Kits FY 2000 Eqpt – Kits FY 2001 Eqpt – Kits FY 2001 Eqpt – Kits FY 2003 Eqpt – Kits				400	1194	1201 457 600	1938	2017		1594 1601 457 2538
FY 2005 Eapt kits							! !	211	3435	3646
TC Equip-Kits									4514	4514
Total Installment				400	1594	2258	2671	3128	7949	18000
Total Procurement Cost			2.0	1.8	3 0.7	2.7	3.9	3.9	5.7	20.7

							ני ו	Date:				
		Exhibit P-40, Budget		em Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	≱l No:					P-1 Item Nomendature:	re:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	· VEHS / 2 / Weapon:	s and Other Combat	Vehicles				M4 C	M4 CARBINE MODS (GB3007)	(2001)		
Program Elements for Code B Items:	is:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	6.0	4.8	7.4	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0.0	27.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6:0	4.8	7.4	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0.0	27.6
Initial Spares												
Total Proc Cost	6.0	4.8	7.4	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0:0	27.6
Flyaway U/C												
Wpn Svs Proc U/C												

DESCRIPTION: The M4 Carbine Modification Program provides a close combat optic, an improved buttstock, a modular weapon suite: which includes a rail system, a top carry sling and a permanently affixed back-up iron sight for the M4 Carbine. It also provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine.

and allows the combat commander to custom configure weapons based upon the mission . The top sling maintains the Carbine in an upright positiion freeing the user's JUSTIFICATION: The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality hands for other tasks. The permanent back-up, rear opertive, iron sight provides that capability in the event it becomes immediately necessary. The M203A1 Grenade Launcher insures campatibility with the M4 Carbine. The improved buttstock provides the rifleman an ergonomically optimized buttstock for the M4 Carbine.

	Exhibit P-4	Exhibit P-40M Budget It	Item Justification Sheet	tion Sheet		Ц	Date		February 2000		
Appropriation / Budget Activity/Serial No.	al No.				P-1 Item Nomendature						
PROCUREMENT OF 1	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	ns and Other Combat V					M4 C	M4 CARBINE MODS (GB3007)	3007)		
Program Elements for Code B Items	9		Code	Other Related Program Elements	am Elemenis						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Modular Weapon System	stem										
TBD1	Operational	5.8	3.9	0.0	2.5	0.0	0.0	0.0	0.0	0.0	12.2
Close Combat Optic											
TBD2	Operational	5.1	2.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	13.0
M203 for M4 Carbine	40										
TBD3	Operational	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
M4 Carbine Buttstock	ي د										
TBD4	Operational	9.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Totals		13.1	6.7	53	2.5	0:0	0.0	0.0	0.0	0.0	27.7
											-

INDIVIDUAL MODIFICATION	Date February 2000
MODIFICATION TITLE: Modular Weapon System TBD1	
MODELS OF SYSTEMS AFFECTED: 5.56 Carbine M4	
DESCRIPTION / JUSTIFICATION:	
The modular weapon is a system of mounting rails/methods to allow the custom configuration of M4 Carbines with a optics, night sights, IR laser pointers, the grenade launcher, back-up sights, etc., based upon mission requirements.	mounting rails/methods to allow the custom configuration of M4 Carbines with ancillary items such as the grenade launcher, back-up sights, etc., based upon mission requirements.
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED	ACTUAL
Developmental/Operational Tests Milestone III Production Decision	3Q95-2Q96 4Q97
Production Contract Award First Production Hardware Delivered First Unit Equipped	4Q98 4Q98 2Q99
Installation Coloredule.	
Installation Schedule. Pr Yr FY 1999 FY 2000 FY 2001	01 FY 2002 FY 2003
Totals	3 4 1 2 3 4 1 2 3 4
EY 2004 EY 2005 EY 2006	EY 2007 Totals
3 4 1 2 3 4 1	3 4 Complete
Inputs Outputs	
METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 6 M Contract Dates: FY 1999 Jul 99 FY 2000	Months PRODUCTION LEADTIME: 12 Months FY 2001 Jan 01
Delivery Date: FY 1999 Jan 00 FY 2000	FY 2001 Dec 01

			INDIVIDUA	INDIVIDUAL MODIFICATION	Z			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	Mo	Modular Weapon System TBD1	n System TB	D1						
FINANCIAL PLAN: (\$ in Millions)	FY 1998	_								
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Oty \$	Qty \$	Cty \$	Oty \$	Oty \$	Cty \$	\$ AD	Oty \$	Qty \$
RDT&E	1.158									1.158
PROCUREMEN I Quantity (Rail Systems)	15058	7788		2400						28246
Installation Kits										
Installation Kits, Nonrecurring										
Hardware	5.411	3.352		2.322						11.085
Equipment, Nonrecurring				1						,
Engineering Support	0.258	0.343		0.092						0.693
i esting	0.020									0.02
Integrated Logistical Support	0.040	0:030		0.030						0.100
Fielding	0.117			090.0						0.301
Engineering Study		0.040								0.04
Installation of Hardware FY 1998 & Prior Eqpt – Kits FY 1999 Eqpt – Kits FY 2000 Eqpt – Kits FY 2001 Eqpt – Kits FY 2002 Eqpt – Kits FY 2004 Eqpt – Kits	2000	9500	3558 7788		5400	· •				15058 7788 5400
FY 2005 Eqpt kits TC Equip-Kits										
Total Installment	2000	9500	11346		5400					28246
Total Procurement Cost	5.8	3.9		2.5						12.2

			NDIVIC	UAL M	INDIVIDUAL MODIFICATION	ATION								Date		February 2000	7 2000	
MODIFICATION TITLE: Close Con	Close Combat Optic TBD2	3D2																
MODELS OF SYSTEMS AFFECTED: M4 Carbine, M68 Sight Reflex	44 Carbine, M6	3 Sight R	eflex															
DESCRIPTION / JUSTIFICATION:																		
The M68 Sight will be installed on the M4 Carbine. The close combat optic allows the soldier to fire a weapon with both eyes open	on the M4	Carbin	e. The	close	comb	at op	ic allo	ws th	ie sol	dier t	o fire	a we	node	with b	oth eye	es ope	<u>2</u> 2 ⊇	
allowing greater awareness of events happening in close proximity. The close combat oping gives the source greater in probability in daylight, low light level, wet weather and other adverse conditions.	evenus nap eather and o	and other adverse conditions.	Iverse	puoo	itions.	<u> </u>	D 200	1	אר טר טר	֝֟֝֟֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֟֝֟֟֝֟֝֟֟֟֝֟֝	= CD A	<u> </u>	בי בי בי	פמפ	<u> </u>	ODabi	≣ <u>}</u> -	
												•						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	VELOPMENT	AILEST(NES:	₫	PLANNED	۵			₹	ACTUAL	4							
Development/Operational Test									~	1/2Q96	<u>ဖ</u> ွဲ့							
I ype Classification (LKIP) Production Contract Award										4096 4096	o (O							
First Production Hardware Delivered	ivered									1Q97 2Q98	. m							
						3					,							
Installation Schedule:	FY 1999	-		FY 2000		_		FY 2001				FY 2002	002			FY 2003	003	:
Totals 1 Outputs	2 3	4	-	2	8	4	-	2	8	4	_	2	3	4	-	7	m	4
									ŀ			İ			Ī			
FY 2004	04		FY 2005				FY 2006			ŀ	FY 2007	- 1			۵		_	Totals
1 2	3 4	+	7	8	4	+	7	က	4	-	7	3	4	ŏ	Complete			
Inputs Outputs																		
MPLEMENTATION:	licatic	ΑĐ	MINIST	RATIVI	ADMINISTRATIVE LEADTIME:	IIME:		1 M	Months	ш.	RODU	CTION	PRODUCTION LEADTIME:	TIME:	10	Months		
Contract Dates: F	FY 1999 Fe FY 1999 N	Feb 99 Nov 99		<u></u> ፫	FY 2000 FY 2000	Jan 00 Apr 00	Jan 00 Apr 00			ш ш	FY 2001 FY 2001							
			l	l		1	l		l	İ	l				l	l		

			INDIVIDUA	INDIVIDUAL MODIFICATION	NC			Date	Februs	February 2000
MODIFICATION TITLE (Cont):	ŏ	Close Combat Optic TBD2	Optic TBD2							
FINANCIAL PLAN: (\$ in Millions)) FY 1998									
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$
RDT&E	1.469									1.469
PROCUREMENT										
Quantity	23300	11625	20320							55245
Installation Kits				_						
Installation Kits, Nonrecurring				_						
Hardware	4.504	2.423	4.977	_						11.904
Equipment, Nonrecurring				_						
Engineering Support	0.363	0.163								0.751
Testing	0.150		0.050							0.200
Integrated Logistical Support	0.050		0.020							0.070
Fielding	0.050		0.020							0.070
Other										
Interim Contractor Support										
										-
Installation of Hardware										
FY 1998 & Prior Eqpt Kits	4399	18901								23300
FY 1999 Eqpt Kits			11625							11625
FY 2000 Eqpt Kits			10659	9661						20320
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits										
FY 2004 Eapt kits										
FY 2005 Eapt kits										
TC Equip-Kits	-1.1									
Total Installment	4399	18901	22284	9661						55245
Total Procurement Cost	5.1	2.6	5.3							13.0

		I	DIVIDL	JAL MC	INDIVIDUAL MODIFICATION	LION								Date		February 2000	2000	
MODIFICATION TITLE: M203 for	M203 for M4 Carbine TBD3	врз																
MODELS OF SYSTEMS AFFECTED: M4 Carbine, M4A1	M4 Carbine, M4A	_																
DESCRIPTION / JUSTIFICATION:																		
The Army units assigned the M4 Car	M4 Carbine w	bine will obtain the capability to fire the M203 Grenade Launcher (GL) with the M4 Carbine.	in the	capat	oility to	fire	he M	203 G	renac	le La	nche	ਭੂ ਹ) with	the N	/4 Car	bine.		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	DEVELOPMENT N	ILESTO	VES:			PLAN	PLANNED				⋖	ACTUAL	7					
Developmental/Operational Tests Type Classification/Milestone III Production Contract Award First Production Hardware Delivered First Unit Equipped	Fests e III elivered											1097 4097 4097 3098 4098						
Installation Schedule:						-												
Pr Yr Totals	FY 1999	4	_	2 2000	3	4	<u></u>	2 2001	ေ	4	-	2 2	3 8	4	F	2 2	3	4
Inputs Outputs																		
	EV 2004	L	EV 2005			"	FY 2006		-		FY 2007				٢			Totals
1 2	3 4	-	2	8	4	1	2	3	4	-	2	3	4	ਠੌ	Complete		•	
Inputs Outputs																		
MPLEMENTATION:	Field Application	ADI	IINISTR	ATIVE	ADMINISTRATIVE LEADTIME:	ME		Mor	Months	ď.	PRODUCTION LEADTIME:	NOIL	LEADT	IME:	2	Months		
Contract Dates: Delivery Date:	FY 1999 FY 1999			FY 2000 FY 2000	000					ב ב	FY 2001 FY 2001							
				l						l	İ	l	l		l	l	l	

	Г	اب	
5152	5152		
,			
2576	2576	1.6	
2576	2576		
Installation of Hardware FY 1998 & Prior Eqpt – Kits FY 2000 Eqpt – Kits FY 2001 Eqpt – Kits FY 2002 Eqpt – Kits FY 2002 Eqpt – Kits FY 2004 Eqpt – Kits FY 2005 Eqpt – Kits TC Equip-Kits	Total Installment	Total Procurement Cost	
ة قر بر بر بر بر بر بر بر بر بر بر بر بر بر	٤	ို	

1.148

0.631

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ģ

FY 2005 Oty \$

FY 2004 Qty \$

FY 2003 Qty \$

FY 2002 Oty \$

FY 2001 Qty \$

FY 2000 Qfy \$

FY 1999 Oty \$

FY 1998 and Prior Qty \$

MODIFICATION TITLE (Cont):
FINANCIAL PLAN: (\$ in Millions)

0.631

RDT&E PROCUREMENT

5152

1.148

Installation Kits, Nonrecurring

Hardware

Installation Kits

Quantity

0.348 0.012 0.040 0.030

Integrated Logistical Support

Fielding

Testing

Equipment, Nonrecurring Engineering Support Interim Contractor Support

INDIVIDUAL MODIFICATION

M203 for M4 Carbine TBD3

5152

0.348 0.012 0.040 0.030

INDIVIDUAL MODIFICATION			Date	February 2000	0
MODIFICATION TITLE: M4 Carbine Buttstock TBD4					
MODELS OF SYSTEMS AFFECTED: M4 Carbine					
DESCRIPTION / JUSTIFICATION:					
The M4 Improved Buttstock provides the rifleman with features for obtaining the proper shooting form; stock/shoulder weld and stock/cheek weld.	he proper shoc	oting form; stoc	k/shoulder w	eld and	
This program provides the rifleman with an ergonomically optimized buttstock for the M4 Carbine.	for the M4 Ca	arbine.			
CHAPTER PRINTED TO 1114 TO TO 1117 POLITICE.					
DEVELORMENT STATUS / MAJOR DEVELORMENT MILESTONES. PLANNED	ACCO	ACCOMPLISHED			
Finalize Design	τ-	1Q98			
Contract Award (Limited Rate) First Production Hardware Delivered MWO/First Unit Equipped	.4	2Q98 3Q98 1Q99			
Installation Schedule: Pr Yr FY 1999 FY 2000 FY 200	FY 2001	FY 2002	~:	FY 2003	
Totals	2 3 4	1 2	4	1 2	4
FY 2004 FY 2005 FY 2006		FY 2007		To	Totals
1 2 3 4 1 2 3 4 1 2 3	3 4	2 3	4 Complete	ete	
Inputs Outputs					
lication ADMINISTRATIVE LEADTIME: 1	1 Months	PRODUCTION LEADTIME:	EADTIME: 3	Months	
Contract Dates: FY 1999 Aug 99 FY 2000 Delivery Date: FY 1999 Oct 99 FY 2000		FY 2001 FY 2001			

			NDIVIDU	INDIVIDUAL MODIFICATION	NC			Date	Februar	February 2000
MODIFICATION TITLE (Cont):	W	M4 Carbine Buttstock TBD4	tstock TBD4							
FINANCIAL PLAN: (\$ in Millions)		_								
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Qty \$	Qty \$	Qty \$	Oty \$	œţ.	Oty \$	Oty \$	Oty \$	\$ AD
RDT&E										
PROCUREMENT										
Quantity	10300	30769								41069
Installation Kits										
Installation Kits, Nonrecurring										
Hardware	0.519	0.142								0.7
Equipment, Nonrecurring										
Engineering Support	0.063									0
Testing		0.057								0.1
Integrated Logistical Support	0.020									0.0
Fielding										
Other										
Interim Contractor Support										
Installation of Hardware										
FY 1998 & Prior Eqpt Kits		10300								10300
FY 1999 Eqpt Kits			30769							30769
FY 2000 Eqpt Kits	4.0 40.4									
FY 2001 Eqpt – Kits								•••		
FY 2002 Eqpt kits									-	
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment		10300	30769							41069
Total Procurement Cost	0.6	0.2								0.8

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifice	ation Sheet			Date:		February 2000		
Appropriation / Budget Activity/Serial No:	at No:					P-1 Item Nomendature:	re:					
PROCUREMENT OF 1	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	⁻VEHS / 2 / Weapon	s and Other Combat	Vehicles				SQUAD AUTO	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)	OD) (GZ1290)		
Program Elements for Code B Items:	:S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	6.0	0.0	0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	38.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Prac (P-1)	6.0	0.0	0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	38.6
Initial Spares												
Total Proc Cost	6.0	0.0	0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	38.6
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

weapon is used in either role, while the bottom rail provides an attachment for the vertical handgrip when the SAW is used in the automatic rifle role. The M249 Machine The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that can be utilized in the automatic rifle role and the machine gun role. The M249 Feedtray Cover will provide a Military Standard 1913 rail interface allowing the mounting of standard military optics (M145 Machine Gun Optics, TWS, PVS-4, etc.) directly to the machine gun. The front rails will be fastened to the sides and bottom of the M249 SAW receiver. The side rails accommodate the devices when the Gun Short Barrel will provide a short version of the 5.56mm automatic weapon.

JUSTIFICATION:

handgrip, which will provide the soldier additional capabilities to engage targets at extended ranges and during periods of limited visibility. The short barrel, when used in conjunction with the M5 Collapsible Buttstock, shortens the M249 Machine Gun by more than 10 inches enhancing the operational capability by improving MOUT The rails will allow for the attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip and horizontal maneuverability and Airborne/Air Assault jump capabilities.

	Exhibit P.	Exhibit P-40M Budget Item Justification Sheet	em Justifica	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No.	ial No.				P-1 Item Nomendature	e					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	pons and Other Combat V	ehicles				SQUAD AUTO	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)	MOD) (GZ1290)		
Program Elements for Code B Items	ιs		Code	Other Related Program Elements	ım Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
M249 Feedtray Covers	ers									-	
TBD1	Operational	0.0	0.0	5.3	8.5	0.0	0.0	0.0	0.0	0.0	13.7
M249 Rails/Bipod/Handguard	andguard										
TBD2	Operational	0.0	0.0	0.0	0.5	5.4	4.1	4.8	0.0	0.0	14.9
M249 Short Barrel											
TBD3	Operational	0.0	0.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	4.0
: :		Ġ	d		,		*	•		Ċ	, , ,
Totals		0.0	0.0	χ. Σ.	10.0	5.4	4.1	2 .	0.0	0.0	32.0
	* The Prior Year Total on the P40 includes \$6.M of programs no longer on this line.	on the P40 incl	udes \$6.M c	of programs n	no longer on	this line.					

							ND N	IDUAI	INDIVIDUAL MODIFICATION	FICA	NOI		١		ı				Date	ڡۣ		February 2000	y 2000	
MODIFICATION TITLE:	M249	э Fее	M249 Feedtray Covers TBD1	Cove	ers T	BD1																		
MODELS OF SYSTEMS AFFECTED: M249 Squad Automatic Weapon & Machine Gun	S AFFEC	TED:	M249	duad /	Autom	atic W	eapon	& Mac	hine G	un														
DESCRIPTION / JUSTIFICATION:	IFICATION	ä		Ė																				
The M249 Feedtray Cover will provide a	ray Cov	er wi	■ pro	/ide a	Ĭ	lary	Stand	ard 1	913	rail ir	iterfa	ë.	ie rail	will	allow	mon	nting	star	dard	milita	Military Standard 1913 rail interface. The rail will allow mounting standard military optics (M145	ics (N	1145	
Machine Gun Optics, TWS, PVS-4 etc), directly to the machine gun. The rail is required to ensure that advanced optical sights can be	otics, TV	VS, F	VS-4	etc),	direc	ally t	o the	mach	ine ç	<u>.</u>	The ra	il is r	equire	ed to	ensr	re th	at ad	vanc	ed or	otical :	sights	can b	e Vicibi	<u>}</u>
mounted on the M249 providing the soldier additional capabilities to engage targets at extended ranges and during periods of infinited visibility.	M249 pr	<u>ovid</u>	ing th	e sold	lera		onal	apa aba		3 TO 6	ngag	e tarç	ersa	exit	aude	ומו	des a	9	5	o per co				
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	TUS / MAJ	JOR D	EVELO	PMEN		MILESTONES	NES:				P	PLANNED	Ω				AC	ACTUAL						
Developmental/User Test	Iser Tes	**															χ Α	3Q98 4Q98						
Production Contract Award First Production Hardware Delivered	act Awa Hardwar	ard re De	elivere	ğ							((()	2000 3000												
First Unit Equipped	pa										•	4Q00												
Installation Schedule:																								
	Pr Yr		≽	FY 1999		\dashv		FY 2000	8	ļ	4	ŀ	FY 2001				"	FY 2002	- 1		ŀ	۲	FY 2003	
Inputs Outputs	Totals		2		<u>е</u>	4	-	2		က	4	-	7	<u>e</u>	4		=	7	m	4	-	7	3	
		FY 2004	9004				FY 2005	05		Ш		FY 2006	ارا	П			FY 2007		Н		욘			Totals
	-	2	3		4	-	2	3	4		-	7	8	4			2	e	4	Š	Complete			
Inputs Outputs												•												
METHOD OF IMPLEMENTATION:	ENTATIO	ÿ			1	IA .	ADMINISTRATIVE LEADTIME	TRAT	IVE LE	SADTI	' <u>\</u>		2 V	Months		PRO	PRODUCTION LEADTIME:	ON LE	ADTIN	ij	2	Months		
Contract Dates: Delivery Date:			FY 1999 FY 1999	<u> </u>		Enter Date Enter Date	an an		FY 2000 FY 2000	3 8	Jun 00	38				FY 2001	5 <u>5</u>	PĒ	Jun 01					
			١	l	l	l		١		l														

		#	AUDIVIDUA	INDIVIDUAL MODIFICATION	Z			Date	Februa	February 2000	
MODIFICATION TITLE (Cont):	M	M249 Feedtray Covers TBD1	Covers TBD1								
FINANCIAL PLAN: (\$ in Millions)) FY 1998										
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	7 200	7 200	읻	OTAL	П
	Oty \$	Qty \$	Ωtγ \$	Oty \$	Oty \$	Oty \$	Oty \$	Qty \$	Qty \$	Qt⁄y \$	T
RDT&E PROCUREMENT Quantity	0.602		22336	36570						58906	9.0
Installation Kits											
Hardware			4.932	8.046			•			~	13.0
Engineering Support			0.232								0.5
Testing Integrated Logistical Support			0:050	0.050							. 6
Fielding			0.025								0.1
Other Interim Contractor Support											
Installation of Hardware											
FY 1998 & Prior Eqpt – Kits											
FY 2000 Eqpt Kits			7445	14891						22336	
FY 2001 Eqpt Kits				12190	24380					36570	
FY 2002 Eqpt kits											
FY 2004 Egpt kits					***************************************						
FY 2005 Eqpt kits											
Total Installment			7445	27081	24380					58906	
Total Procurement Cost			5.3							,	13.7

Modification
Individual
Exhibit P-3a

			IONI	JEUAL	INDIVIDUAL MODIFICATION	ATION:							Date		February 2000	900	Т
MODIFICATION TITLE: M249 Rai	M249 Rails/Bipod/Handguard TBD2	ndguar	д ТВБ	2													
MODELS OF SYSTEMS AFFECTED:	M249 Squad	Automatic Weapon & Machine Gun	Weapo	& Mad	nine Gun												
DESCRIPTION / JUSTIFICATION:																	
The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that will be utilized in the automatic rifle role and the machine gun role. The front rails will be fastened to the sides and bottom of the M249 SAW receiver. They will allow the attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip and horizontal handgrip.	Weapon (Srails will be future high t	AW) is fastene echnole	a 5.56 d to th	mm, lig e sides sctronic	ghtweig and b	ht, ma ottom ight vis	chine gof the I	yun tha M249 S vices,	it will to	oe utilizaceivei sceivei Il hand	zed in They: grip aı	the aut / will al nd hori	SAW) is a 5.56mm, lightweight, machine gun that will be utilized in the automatic rifle role and the fastened to the sides and bottom of the M249 SAW receiver. They will allow the attachment of a technology electronic and night vision devices, vertical handgrip and horizontal handgrip.	rifle rol attachı andgri	e and t nent of p.	a je	
The front side rails accommodate the devices when the weapon is used in either role. When the SAW is used in the automatic rifle role,	odate the de	vices v	when the	le wea	pon is	ısed ir	either	role. V	Vhen t	he SA	w is u	sed in	the auto	matic	rifle role	ø.	
the bottom rail provides an attachine in		אסוות וסן תופ עפותכמו וימונטפוף.				i											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES.	EVELOPMEN	r MILES	TONES:			딥	PLANNED								ļ		
Developmental/Operational Test	est					0 0	2Q01										
Production Decision Production Contract Award) <u>4</u>	4001										
First Production Hardware Delivered First Unit Equipped	elivered					⊻ 4	2Q02 4Q02										
الماسية والماسية																	
Installation Schedule.	FY 1999			FY 2000	8	-	-	FY 2001			(F)	FY 2002			FY 2003	33	П
		4	-	2	ε	4	-	2	3	4	-	7	4	-	2	8	4
Outputs						-	-	_	-	-		_				-	
[M	FY 2004		FY 2005	905	H		FY 2006		Н		FY 2007			υ		Totals	S
1 2	3	4	7	3	4	1	2	6	4	-	2	·	<u>4</u>	Complete			ı
Inputs																	
METHOD OF IMPLEMENTATION:			ADMIN	STRATI	ADMINISTRATIVE LEADTIME:	TIME	-	10 Months	ths	PRO	DUCTIC	PRODUCTION LEADTIME:	TIME:	~	Months		
Contract Dates:	FY 1999	Enter Date	ate		FY 2000 FY 2000	<u>.</u>	Enter Date Fnter Date			FY 2001 FY 2001	5 6	AUG 01 MAR 02	F 20				
Delivery Date.	6661 1.1																1

(\$ in Millions) Complementary Fr 1998				INDIVIDUAL	INDIVIDUAL MODIFICATION	z			Date	Februs	February 2000	
FY 1998 and Prior FY 2000 FY 2001 FY 2002 FY 2003 Qiy \$ Qiy Qi	MODIFICATION TITLE (Cont):	M	.49 Rails/Bipo	d/Handguard	TBD2							
Avare	FINANCIAL PLAN: (\$ in Millions)	L										
Oty \$ City \$ C		and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL	
Nonrecurring 0.509 0.577 0.530 4244							Qty	Qty \$	Oty \$	\$ ¢t⊘	Qfy	s,
Nonrecurring Nonrecurring port cal Support cal Support Cal Suppor	RDT&E			0.509	0.577	0.530						1.616
unring 0.350 0.350 3.400 2.500 ng pport 1- Kits	PROCUREMENT											
ng 0.350 3.400 2.500 ng port 0.150 0.272 0.201 0.000 0.000 0.000 0.100 0	Quantity				520	5582	4244	2000			15346	
ng 0.150 0.272 0.211 0.100 0.1	Installation Kits											
ng 0.150 0.272 0.211 0.150 0.170 0.1	Installation Kits, Nonrecurring										,	
ng 0.150 0.272 0.211 0.300 0.1	Hardware				0.350	3.400		3.000				9.250
pport pport 0.150 0.272 0.201 0.300 0.120 0.300 0.120 0.120 0.080 0.100	Equipment, Nonrecurring											
pport 0.300 0.120 0.080 0.100 1.370 1.179	Engineering Support				0.150	0.272						0.835
1.370 0.000 0.100 1.179	Testing				•	0.300						0.570
t Kits	Integrated Logistical Support					0.080					_	0.280
t Kits 520 2796	Fielding					1.370		1.382				3.931
t Kits												
t – Kits												
t Kits 520 2796												
t – Kits 520 5796												
t Kits 520 2796												
t Kits 520 2796												
rior Eqpt – Kits 1 – Kits 1 – Kits 1 – Kits 2796 2796 2796 2797 2796 2796 2796 2796 2796 2796 2796 2796 2796 2797 2796 2796	Installation of Hardware											
t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits t - Kits	FY 1998 & Prior Eqpt Kits			·								
t – Kits t – Kits t – Kits t – Kits t – Kits t – Kits t – Kits t – Kits t – Kits	FY 1999 Eqpt Kits											
ot – Kits ot – Kits ot – Kits ot – Kits ot – Kits ot – Kits ot – Kits	FY 2000 Eqpt Kits											
ot – kits ot – kits ot – kits ot – kits ot – kits ot – kits	FY 2001 Eqpt Kits					520					520	
ot – kits ot – kits ot – kits	FY 2002 Eqpt kits						2796	2786			5582	
ot – kits	FY 2003 Eqpt kits							2124	2120		4244	
ot kits	FY 2004 Eqpt kits								2502	2498	2000	
V V V V V V V V V V V V V V V V V V V	FY 2005 Eqpt kits											
COL	TC Equip-Kits											
520 2/96	Total Installment					520	2796	4910	4622	2498	15346	
Total Procurement Cost 5.4 4.1	Total Procurement Cost				0.5	5.4		4.8				14.9

						S	NIDU	IL MOL	INDIVIDUAL MODIFICATION	NO NO							֡֜֞֞֜֞֜֞֜֞֜֞֜֞֜֜֜֞֜֞֜֜֓֓֡֓֜֜֜֡֡֜֜֡֡֜֜֜֡֜֜֡֡֡֜֜֡֡֡֜֜֡֡֜֜	Date		February 2000	2000	T
MODIFICATION TITLE:	M249 Short Barrel TBD3	Shor	Barr	¥ TBC	33																	
MODELS OF SYSTEMS AFFECTED: IM249 Squad Automatic Weapon & Machine Gun	S AFFECTI	ED: IN	249 Sq	uad Au	tomatic	; Weap	n & M	achine (Gun													
DESCRIPTION / JUSTIFICATION:	FICATION																					
The M249 Machine Gun Short Barrel will	ne Gun	Short	Barre	will F	orovid	east	ort v	ersion	of the	3 5.56	mm	utom	atic v	provide a short version of the 5.56mm automatic weapon. The Short Barrel, when used in	. The	Sho	rt Ban	rel, wh	en us	ed in		
conjunction with the M5 Collapsible Buttstock, shortens the M249MG by more than 10 inches. The resultant short weapon enhances	the M5 C	Sollap	sible E	3uttste	ock, s	hortei	s the	M245	SMG t	y mo	re tha	in 10	inche	S. The	resul	tant	short \	меаро	n enha	sacus		
operational capability by improving MOOT maneuverability and Airborne/Air Assault Jump capabilities.	pility by I	impro	ving v	00	man	euver	ability	and ,	AILDOL	ne/All	ASS	adır ju	o dui	apapilli	lles.							
															ľ							
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	US / MAJC	JR DE\	ÆLOP!	MENT	MILES	MILESTONES:				PLA	PLANNED	0			∢	ACTUA	4					
Developmental/User Test	ser Test									•					~	1000						
Production Decision	Б									2000	8 :											
Production Contract Award	act Awar	ė Jack	para							3000	8 5											
First Unit Equipped	pe pe	3	2							202	2 2											
Installation Schedule:	× 2		EV 4000	١			۵	EV 2000		_	"	FV 2004		-		EV 2002	٤			FV 2003	 g	
-	= 5	F		3 6	1	-	-	3		Ļ	-	-	_	ļ	-	֓֡֜֜֜֜֜֜֜֡֓֜֜֜֜֡֡֡֡֜֜֜֜֡֡֡֡֜֜֜֡֡	- -	4	F		6	4
4	- Otals	+	1	5			1				_	1	,	+	+	1			•	+	+	
Outputs																						
		FY 2004	4			F	FY 2005			ĬŒ.	FY 2006		H		FY 2007	77			2		ĭ	Totals
	1	2	3	4	-	2	3	4			2	3	4	-	7	8	4	රි	Complete			
Inputs Outputs																						
METHOD OF IMPLEMENTATION:	ENTATION	<u>.</u>				ADMIN	STRA	TIVE LE	ADMINISTRATIVE LEADTIME:	ij	2		Months	PR	ODOC	NOIL	PRODUCTION LEADTIME:	IME:	9	Months		
Contract Dates:		Œ	FY 1999	Ш	Enter Date	ate		FY 2000	8	May 00	8			£	FY 2001	_	May 01					
Delivery Date:		Ĺ	FY 1999	س	Enter Date	ate		FY 2000	8	Nov 00	8			£	FY 2001	_	Nov 01					

			INDIVIDUA	INDIVIDUAL MODIFICATION	NO			Date	Febru	February 2000
MODIFICATION TITLE (Cont):	MZ	M249 Short Barrel TBD3	rel TBD3							
FINANCIAL PLAN: (\$ in Millions)										
		1000	2000	7.000 XI	0000	2000	FV 2004	1 57 2005	C.F	TOTAL
	and Prior Otv \$	Ctv 1999	Cty \$	\$ 200	Oty \$	Oty \$	\$ Cty	Oty \$	S Apo	Off Car
RDT&E										
PROCUREMENT										-
Kit Quantity			4536	1184						5720
Installation Kits										
Installation Kits, Nonrecurring										
Hardware		57, 144	2.395							3.0
Engineering Support			0.400	0.250	· <u>_</u>					
Testing			0.100							
Integrated Logistical Support			0.075	0.050						0.1
Fielding			0:030	-						
Support Equipment										
Other										
Interim Contractor Support										
orcupact to notalistani										-
Transmission of transmission										
FY 1990 & Prior Eqpt Nis										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits				4536						4536
FY 2001 Eqpt Kits					1184					1184
FY 2002 Eqpt kits										
FY 2003 Eqpt kits				,						
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits			:							
Total Installment				4536	1184					5720
Total Procurement Cost			3.0	1.0						4.0

			The second name of the second								, married 1	
		Exhibit P-40, Budget	0, Budget it	em Justifica	Item Justification Sheet		-	Date:		February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	Te:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	'VEHS / 2 / Weapon	s and Other Combat \	Vehicles				MEDIUM MA	MEDIUM MACHINE GUNS (MODS) (GZ1300)	S) (GZ1300)		
Program Elements for Code B Items:	IS:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	6.3	1.9	0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0	0.0	15.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.3	1.9	0:0	0.0	0.0	0.5	0.7	0.0	3.0	3.0		15.4
Initial Spares												
Total Proc Cost	6.3	1.9	0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0	0.0	15.4
Flyaway U/C												
Won Svs Proc U/C												

DESCRIPTION: The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintlebarrel, buttstock, pistol grip, bipod, heatshield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing permits rapid change of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the and elevating mechanism and a flex mount pintle. Since the initial fielding of the M240B, various system enhancements have been identified that further improves the mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which use of this weapon system by reducing weight, increasing functionality, and improving training capability.

JUSTIFICATION: The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light vehicles and fortified positions. The system enhancements have been identified by fielded units as those which are desired to further improve this remarkably reliable infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored weapon system.

Exhibit P.	Exhibit P-40M Budget It	em Justific	Item Justification Sheet			Date		February 2000		
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	apons and Other Combat V	ehicles		P-1 Item Nomendature	g	MEDIUM MA	MEDIUM MACHINE GUNS (MODS) (GZ1300)	S) (GZ1300)		
Program Elements for Code B Items		Code	Other Related Program Elements	am Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
M240B System Improvements					0			d		,
TBD1	0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.0	0.0	1.2
Improved Tripod										
TBD2	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	4.5	10.5
	Ċ	Ċ			1	Ċ		Ċ		ľ
Totals	0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0	t.5	11./
				:						

						Z	/NIDU/	INDIVIDUAL MODIFICATION	IFICAT	NO NO							Date		February 2000	000	٦
MODIFICATION TITLE:	. M24	OB Sy	stem	M240B System Improvements TBD1	/emer	Its TI	301														
MODELS OF SYSTEMS AFFECTED: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	S AFFEC	TED: ,	ARMOF	MACH	NE GU	N, 7.62	MW W	240 SEF	SIES (G	13000)											
DESCRIPTION / JUSTIFICATION:	FICATIO	ä																			
The M240B system improvements decrease the system weight and improve the weapon system functionality. Providing capability to carry	em imp	rover	ents (decrea	se the	syst	≫ Me	sight a	ind im	prove	the w	veapo	n sys	tem fu	nction	ality.	Providi	ng capa	bility to c	arry	
and attach weapon system accessories,	on syst	em ac	cessc	ries, p	rovid	e for a	djust.	able bi	pod, i	mpro	ed er	ouoß.	mics c	of butts	stock	and in	prove	nents ir	provide for adjustable bipod, improved ergonomics of buttstock and improvements in the heatshield	shield	
design attains increased functionality. Reducing weignt in various weapon and tripod components attains the reduction in weight.	creased	TUNC	llonall	.ў. қе	วันเวกเ	Meig Meig		arious	s wear	pon al	du pu	00 00	Todu.	ents a	Itains	ille re	anctio	i Me	Jnt.		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	US / MA.	JOR DE	VELOF	MENT	MILES	TONES															
						Planned	þ		ACTUAL	NAL											
Development/Operational Tests	eration	al Tes	ts			Ž	Mar 00														
Production Decision	ion					8	OCT 01														
Production Contract Award	act Awa	ard				<u>ا</u>	Jun 01														
First Production Hardware Delivered	Hardwa	re De	ivered			Δ ,	Dec 01														
First Unit Equipped	D G					Ma	Mar 02														
Installation Schedule:																					
	PrYr		FY 1999	666			F	FY 2000			٤	FY 2001			-	FY 2002			FY 2003	3	
	Totals	-	7	8	4	-	2	9	4			7	က	4	=	7	က	4	7	က	4
Inputs Outputs	-																				
		FY 2004	절 			F	FY 2005			4	FY 2006			۳	FY 2007		П	To		Totals	S
	-	2	က	4	-	2	3	4			2	8	4	-	2	3	4	Complete			
Inputs Outputs																				·	
METHOD OF IMPLEMENTATION:	ENTATIO	ä]	4DMIN	STRA	ADMINISTRATIVE LEADTIME:	ADTIM	ا س	80	Months	th E	PRG	DUCT	ON LE	PRODUCTION LEADTIME:	9	Months		
Contract Dates:		-	FY 1999	_				FY 2000	9					FY 2001	001	JUN 01	101				
Delivery Date:			FY 1999	_				FY 2000	2					FY 2001	9	DE	DEC 01				
																					1

			NDIVIDUA	INDIVIDUAL MODIFICATION	Z			Date	Februa	February 2000
MODIFICATION TITLE (Cont):	M2	M240B System	n Improvements TBD1	s TBD1						
FINANCIAL PLAN: (\$ in Millions)	4 4000									
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	OTAL
	Qty \$	Qty \$	Cty \$	Qŧ⁄y	Qty \$	\$ 40	Oty \$	Qty \$	Oty \$	Qty \$
RDT&E										
PROCUREMENT										,
Kit Quantity				3300	2000					8300
Installation Kits										
Installation Kits, Nonrecurring										
Hardware				0.276	0.417					0.693
Equipment, Nonrecurring										
Engineering Support				0.050	0.075					0.125
Testing		•								
Integrated Logistical Support				0.037	0.050					0.087
Fielding				0.132						0.332
Support Equipment										
Other										
Interim Contractor Support										
:										
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits					2400	006				3300
FY 2002 Eqpt kits						2700	2300			2000
FY 2003 Eqpt kits										
FY 2004 Eqpt kits										
FY 2005 Eqpt kits										
TC Equip-Kits										
Total Installment					2400	3600	2300			8300
Total Procurement Cost				0.5	0.7					1.2

					NDIN	INDIVIDUAL MODIFICATION	ODIFIC/	NOIL							Date		February 2000	2000	
MODIFICATION TITLE:	Improved Tripod TBD2	1 Tripo	TBD	~ I															
MODELS OF SYSTEMS AFFECTED: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	FECTED:	ARMOF	MACHII	VE GUN	, 7.62MI	M M240	SERIES	(G13000	(
DESCRIPTION / JUSTIFICATION:	\TION:																		
The Light Weight Tripod will reduce the	pod will	reduce	the we	ight b	y appr	oximate	ly 50 p	ercen	of the	curre	nt tripo	òd. ≓	vill inc	orpora	te a m	odern t	weight by approximately 50 percent of the current tripod. It will incorporate a modern traverse and	e and	
elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as have a series of	n that wi	II main	tain pre	deterr	nined (evatic	n throu	nghout	the fu	l rang	e of w	eapon	traver	se, as	well as	have	a serie	s of	
index marks that enable gunners to construct a range data card.	able gun	ners to	constr	uct a ra	ange d	ata car	o												
																	٠		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	MAJOR	EVELO	MENT N	AILEST(NES:														
					Planned	ō	¥	ACTUAL											
Development/Operational Tests	ional Te	sts			3003	33													
Type Classification (LRP)	-RP)				4Q03	က													
Production Contract Award	Award	:			2004	귤 (
First Production Hardware Delivered	lware Do	elivere	_		4004	40												1	
First Unit Equipped					1005														
Installation Schedule:																			
Pr Yr		FY 1999	666		ŀ	FY 2000		\dashv	Œ.	FY 2001			<u>`</u>	FY 2002			FY 2003	g	
Totals	<u>s</u>	2	6	4		7	e	4		2	·	4	2	e e	4	=	7	e	4
Inputs Outputs																			
]																			
	FΥ	FY 2004			FY 2005	15	\dashv	۱	FY 2006			F	FY 2007			To		Ţ	Totals
	1 2	3	4	-	2	3	4	-	2	e	4		2 3	4		Complete			
Inputs Outputs																			
METHOD OF IMPLEMENTATION:	ATION:			A	DMINIST	ADMINISTRATIVE LEADTIME:	LEADTI	ME:	6	Months	S	PROC	UCTIO	PRODUCTION LEADTIME:	TIME:	6	Months		
Contract Dates:		FY 1999				<u>}</u> }	FY 2000					FY 2001	2 2						
Delivery Date:		F1 1999					2000					FT 2001	5						

	<u> </u>	Improved Tripod TBD2	4 TBD3							
MODIFICATION TITLE (Cont):		pioved impor	2001							
FINANCIAL PLAN: (\$ in Millions)										
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	10	TOTAL
	Qty \$	Qty \$	Oty \$	Oty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Oty \$
RDT&E PROCUREMENT										
Kit Quantity							3000	3000	4804	10804
Installation Kits										
Installation Kits, Nonrecurring										
Hardware							2.208	2.205	3.330	7.743
Equipment, Nonrecurring										
Engineering Support							0.387	0.385	0.585	1.357
Testing										
Integrated Logistical Support							0.100	0.100		
Fielding							0.300	0.300	0.450	1.050
Support Equipment										
Other										
()										
Interim Contractor Support							·			
Installation of Hardware										
FY 1998 & Prior Eqpt Kits										
FY 1999 Eqpt Kits										
FY 2000 Eqpt Kits										
FY 2001 Eqpt Kits										
FY 2002 Eqpt kits										
FY 2003 Eqpt kits		_								
FY 2004 Eqpt kits								3000		3000
FY 2005 Eqpt kits									3000	3000
TC Equip-Kits									4804	4804
Total Installment								3000	7804	10804
Total Procurement Cost							3.0	3.0	4.5	10.5

INDIVIDUAL MODIFICATION

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								Date:				
		Exhibit P-40, Budget		Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	ıre:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	WPNS & TRKD CMBT	VEHS / 2 / Weapon	s and Other Combat	Vehicles				HOWITZER, TOW	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)	MODS) (GA0430)		
Program Elements for Code B Items:	.S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	3.3	3.5	2.8				0.0	9.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Howitzer Improvement Program and Enhancement (HIPE) for the 155MM, M198, Medium Towed Howitzer

JUSTIFICATION: FY01 funding is required to meet two of the major thrusts for ForceXXI and for Army After Next (AAN) to modernize and digitize current weapon systems. The M198 Howitzer must be modernized in order to perform it's mission of general support for the light division. The modifications applied with this funding fulfill this requirement. The HIPE will greatly enhance the mobility, survivability, and responsiveness of the M198. These modifications will ensure that the M198 will continue to be a force multiplier today and in the future.

	Exhibit P-4	Exhibit P-40M Budget Item Justification Sheet	em Justifica	ation Sheet			Date		February 2000		-
Appropriation / Budget Activity/Serial No.	erial No.				P-1 Item Nomenclature	1.0		MANAGE CONTRACT CONTR	(C) (C) (C) (C)		
PROCUREMENT	PROCUREMENT OF WINS & TRKD CMB1 VEHS / Z./ Weapons and Other Contour Vehicles	IS and Other Collidat V					iomiten, io	125, 135mm, m135	(parama) (parami)		
Program Elements for Code B Items	lems		opo	Other Related Program Elements	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
TBD1 Block1 Upgrade	Operational	0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6
Totals		0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6
		·								·	

MODIFICATION TITLE (Cont):	Blo	Block 1 Upgrade	0								
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	EV 1000	2000	EV 2004	EV 2002	EV 2003	EV 2004	EV 2005	10	TOTA	Т
	Oty \$	Oty &	\$ Apo	\$ cty	Sty Sty	Oty \$	Oty \$	Qty \$	Qty \$	Qty	€
RDT&E											
PROCUREMENT											
Kit Quantity			150 0.705	150 0.705						300	1.410
Installation Kits			0.190								0.190
Installation Kits, Nonrecurring			0.100				4				3
Equipment											
Equipment, Nonrecurring										•	
Engineering Change Orders			0.400								0.400
Data			0.300							_	300
Training Equipment	_										
Support Equipment											
Pre-Modification Depot Maint			1.635	1.616	1.620					4	4.871
Interim Contractor Support			-								
Pre-Modification Denot Maint											
Installation of Hardware											
FY 1998 & Prior Eqpt Kits											-
FY 1999 Eqpt Kits											
FY 2000 Eqpt Kits				150 1.186						150 1	1.186
FY 2001 Eqpt Kits					150 1.186						.186
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits				,							
FY 2005 Eqpt kits											
TC Equip-Kits											
Total Installment				150	150					300	2.372
Total Procurement Cost			3.330	3.507	2.806					3	9.643

INDIVIDUAL MODIFICATION

Exhibit P-40	Budget Item Justification Shee

Exhibit P-40, Budget I Appropriation / Budget I Appropriation / Budget Appropriation / Budget Appropriation / Budget Appropriation / Budget Appropriation / Budget Appropriation / Budget I Appropri		Exhibit P-40. Budget		Cigipton frontifica								
Appropriation / Budget Activity/Serial N PROCUREMENT OF WP				SIII ORSIII E	tem Justification Sheet					February 2000		
PROCUREMENT OF WP	<u>.</u>					P-1 Item Nomendature:	re:					
	NS & TRKD CMBT	VEHS / 2 / Weapons	and Other Combat	t Vehicles				M1191	M119 MODIFICATIONS (GC0401)	20401)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	ram Elements:					:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	4.8	4.8	4.8	4.7	4.9	4.8	0.0	0.0	0.0	28.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	4.8	4.8	4.8	4.7	4.9	4.8	0.0	0.0	0.0	28.7
Initial Spares												
Total Proc Cost	0.0	0.0	4.8	4.8	4.8	4.7	4.9	4.8	0:0	0.0	0.0	28.7
Flyaway U/C												
Wpn Sys Proc U/C			1									

DESCRIPTION: Light Artillery System Improvement Plan (LASIP) for the 105mm, M119A1 Light, Towed Howitzer

(LASIP) initiates this process by correcting known deficiencies, improving reliability, availability and maintainability (RAM), and providing solutions to requests for minor operational enhancements. The LASIP was developed by the M119A1 Howitzer Improvement Team (HIT), chartered specifically to respond to improvements requested by field artillery School (USAFAS) and the U.S. Army Training and Doctrine Command (TRADOC). JUSTIFICATION: The 105mm M119A1 Light, Towed Howitzer was selected as the weapon of choice for the light forces because it was a nondevelopmental item (NDI) with growth potential. Now that 418 M119A1 howitzers have been fielded, it is time to realize that growth potential. The Light Artillery System Improvement Plan

		Ţ				11.2	17.5	28.7
					Total	•	•-	••
						0.0	0.0	0.0
					TC			
, 2000					900	0.0	0.0	0.0
February 2000	90	(10401)			FY 2005			
	9401	5) 51011			FY 2004	0.0	0.0	0.0
	STOROGO OF STOROGO	MODIFIC			_		~	~
		2			FY 2003	0.0	4.8	4.8
Date					Н	0.0	4.9	4.9
					FY 2002	0	4	4
	andature					0.0	4.7	4.7
	P-1 Item Nomenclature		Elements		FY 2001			
heet	<u> </u>	\dashv	ed Program		_	2.3	2.5	4.8
Item Justification Sheet			Other Related Program Elements		FY 2000			
ustifica		ſ	Code		FY 1999	4.2	9.0	4.8
tem Jı		venicies	රි	<u></u>				
rdget I		ner compar		Fiscal Years	FY 1998	4.8	0.0	4.8
10M B	1	ons and Oil		Fisca	FΥ			
Exhibit P-40M Budget		7 2 / weap						
		MBI VERS			ıtion	lal	ıal	
		PROCUREMENT OF WITNS & TRKD CMBT VEHS / Z./ Weapons and Other Combat Vehicles			Classification	Operational	Operational	
	//Serial No.	OF WPNS	3 Items		<u> </u>	ပ် ဝိ	ŏ	
	Appropriation / Budget Activity/Serial No.	UKEMEN	Program Elements for Code B Items	_		grade	grade	
	priation / Bu	PRO.	am Element	Description	OSIP NO.	TBD1 Block1 Upgrade	Block2 Upgrade	als S
<u> </u>	Approx		Progra	Des	SO	TBD1 Block1		Totals

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Individu
Exhibit P-3a

					=	NDIVIDI	JAL MO	INDIVIDUAL MODIFICATION	NO NO							Date		February 2000	8
MODIFICATION TITLE:	TBD1 Block1 Upgrade	lock1	Upgra	ge															
MODELS OF SYSTEMS AFFECTED: Howitzer, Light	S AFFECTE): Howit	zer, Lig		d, 105n	Towed, 105mm M119A1	3A1												
DESCRIPTION / JUSTIFICATION:	FICATION:																		
Retrofit Low Temp Recuperator 1-90-05-7875: the seals function only to temperature of -25F not the -50F. Improve Indirect Fire control;	np Recupe	rator 1	0-06-	5-787	5: the	seals t	unctio	n only	to tem	perati	are of	-25F r	ot the	-50F.	Impro	ve Indir	ect Fire	e contro	÷
Upgrade M187 1-94-05-7911; The M119A1 indirect fire control system fails approximately 14 times more often than other hardware fire	-94-05-79	1 . 1 .	e M11	9A1 ii	direct	fire of	ontrol (system	fails a	approx	cimate -	iy 14 t	imes r	nore	en th	an othe	r hardv	vare fire	
control systems when Operational Mode Profile (UMP) is factored in. Upgrade Cam Follower Arm: preventing damage to the cam follower	when Oper	rationa Ishility	Moc	e Pro		MP) IS	Tactor	ed In.	Upgra			lower or co	Arm:	preve SCR)	sing as	ımage ı we Firir	to the c	Profile (OMP) is factored in. Upgrade Cam Follower Arm: preventing damage to the cam follower intainability while reducing Operating and Support costs (OSCR). Improve Firing Stays: the design	ower Jesian
and mounting clearances for the clevis pins on the rear firing stays of the firing platform make it very difficult to attach the stays to the trail	ullity, avall sarances f	or the	clevis	pins c	in the	rearf⊪	ring st	ays of	the firi	ng pla	fform	make	it very	diffic	ult to at	tach the	e stays	to the t	rail
during emplacement. Improve Traveling	ent. Impr	ove Tr	avelir	ig Sta	/s: th	e desi	yn and	moun	ting cl	earan	ces fo	r the c	levis p	oins or	the tra	veling	stays n	Stays: the design and mounting clearances for the clevis pins on the traveling stays make it very	/ery
difficult to attach the stays to the trail when preparing for towing. Modity Brake System: the new modified brake system is of commercial design which provides better brakes and has lower spares costs. Add Trail Lifting Handles: due to limited clearance, the user has reques	the stays vides betto	to the er brak	trail w es an	hen p d has	reparii Iower	ng for spare	towing s costs	. Add	y Brai Trail L	e Sys iffing	stem: Handl	the nees: du	ew mc Je to li	diffed	brake ; clearar	system ice, the	is of course h	on preparing for towing. Modity Brake System: the new modified brake system is of commercial has lower spares costs. Add Trail Lifting Handles: due to limited clearance, the user has requested	ested
trail litting handles be designed.	s be desig	jned.																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	US / MAJOR	DEVEL	OPME	AT MILI	STON	:3:													
			Pla	Planned	Ă	Accomplished	ished							Plar	Planned	Ac	Accomplished	shed	
Validate Materiel change (MC)	change (∿	<u>ي</u>				3090	90		å	liver !	irst №	Deliver First Mod Kit				15	1099		
Critical Design Review	eview	•				3091	7		Ë	st Uni	t Equi	First Unit Equipped (FUE)	FUE)			5	1099		
Complete Testing of Prototype	of Prototy	/pe				3092	35		Ö	liver L	ast M	Deliver Last Mod Kit		4Q00					
Release Technical Data Package (TDP)	al Data Pa	ckage	(TDP	_		1093	93		ت	ast Un	Last Unit Equipped	ipped		4Q00					
Award Contract for Modification Kits	or Modifica	ation K	its			2098	86												
Installation Schedule:																			
	Pr Yr	A	FY 1999		Ц	Ĺ	FY 2000				FY 2001		\perp		FY 2002			FY 2003	_
	Totals	1	2	က	4	+	2		4		2	8	4	-	2 3	4	-	7	3
Inputs Outputs		46 7	92	63	38 2	46 5	58 4	43 36 43 36	<i>7</i> 0 <i>7</i> 0										
•																			
	ĹL.	FY 2004		L	L	FY 2005			놘	FY 2006				FY 2007			То		Totals
	1	2	3	4	1	2	3	,	1	2	3	4		2	3 4	S	Complete		
Inputs Outputs		•																	406
METHOD OF IMPLEMENTATION:	ENTATION:	Unit /	Unit Application	ion	ADIV	IINISTR	ATIVE L	ADMINISTRATIVE LEADTIME	نن	4	Months	SI	PROL	UCTIC	PRODUCTION LEADTIME:	'IME:	9	Months	
Contract Dates:		FY 1999	666	Multiple	ole Ole		FY 2000	000	Multiple	<u>e</u>			FY 2001	2	Multiple				
Delivery Date:		FY 1999	366	Multiple	ple ble		FY 2000	000	Multiple	<u>o</u>			FY 2001	2	Multiple	_			

Item No. 39 Page 4 of 6

			NDIN	IDUAL N	INDIVIDUAL MODIFICATION	NC			Date	Febr	February 2000	٦
MODIFICATION TITLE (Cont):	TB.	TBD1 Block1 U	pgrade		,							
FINANCIAL PLAN: (\$ in Millions)	FY 1998	_										
	and Prior	FY 1999	FY 2000	-	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL	
	Qty \$	Qty \$	ξ	\$	Oty \$	Ωtγ \$	Ωtγ \$	Oty \$	Oty \$	Oty \$	ξ	69
RDT&E PROCUREMENT												
Kit Quantity	110	125	171								406	
Installation Kits												
Equipment	4.337	3.666		1.656								9.659
Equipment, Nonrecurring	0.026											0.026
Engineering Change Orders	0.032	0.025		0.025								0.082
Data	0.102			007.								270.0
Training Equipment												
Other	0.167	A.V										0.167
Contractor Support		0.051		080.0								0.131
				* ****								
Installation of Hardware											,	
FY 1998 & Prior Eqpt Kits	38 0.040	75									19	0.120
FY 1999 Eqpt Kits		113 0.125	15	0.020							22.	0.145
FY 2000 Eqpt Kits			13	0.247		,					<u>-</u>	0.247
FY 2001 Eqpt Kits												,
FY 2002 Eqpt kits												
FY 2003 Eqpt Kits												
FY 2004 Eqpt kits												
FY 2005 Eqpt kits TC Fouip-Kits												-
Total Installment	38 0.040	185 0.205	183	0.267							406	0.512
Total Procurement Cost	4.764			2.263								11.199

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MODIFICATION TITLE:	TBD2 Block2 Upgrade	Block	c2 Up	grade																	
MODELS OF SYSTEMS AFFECTED: Howitzer, Light Towed, 105mm M119A1	AFFECTE	Ť	owitzer	Light T	owed,	105mn	M119	A1													
DESCRIPTION / JUSTIFICATION:	CATION:																				
The rammer/extractor tool currently issue	ctor tool	cnir	ently	ssued	was	"borr	owed	" from	the N	1102	Howit	zer wh	ich rec	quires (the ba	se of th	d was "borrowed" from the M102 Howitzer which requires the base of the primed cartridge be	ed cart	ridge b	ω	
forcefully struck by a hard rubber plunger. Upgrade elevating handwheel: it is the limiting factor in the system departure angle during cross	a hard	rubb	er plu	Inger.	Upg	rade	eleva	ting h	andwł	eel:	it is th	e limit	ing fac	tor in t	he sys	stem d	epartur	e angle	during	cross	
country movement and is highly susceptible to damage during tactical operations. Modify the Firing Platform clamps: the firing platform	and is	high	ly sus	ceptib	e to	dame	ige di	iring t	actica	li opei	ation	S. Mc	odity th	e Firm	g Plati	form C	amps: อาสารโก	the Tirir	ng plati בים פלו	E OLE	
must be disengaged from its stowage prackets, lifted fright the front trief completely deal of the trail praced on the ground before the bowitzer can be rolled into its firing position. Modify the Flevation Clutches: this will reduce corrosion damage and lower	ed ironi		וסשמנו אם דינו אם בינו	יון אוי ר	ing n			ually Jdify	֡֝֝֝֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟			fobes.	this w	aly car			משל הוום החים היום		lower J	2	
maintenance costs. Replace compensating tubes in the buffer assembly with a more reliable system. This eliminates the collapse of the	. Repla	30 e C	ompe	nsatin	g tub	es in	the b	uffer (asser	w ylqı	ithar	nore r	eliable	syster	n. Thi	is elim	nates t	he colla	apse of	the	
current tube design. Modification of firing platform to allow overhaul rather than replacement. Howitzer locater to allow weapon to be easily	n. Modi	ificati	ion of	firing	platfc	orm to	allo	v over	haul r	ather	than I	replac	ement	. Howi	tzer lo	cater t	o allow	weapo	n to be	easily	>
יייים ממונים מייים ווקוו מון מייים סלים מוניים בייים מייים מייים מייים מייים מייים מייים מייים מייים מייים מיי		<u> </u>			3 2	Š))		2	Sad a Province Gago to the couperation	3										
DEVELOPMENT STATUS / MAJOR DEVELOPMENT	S / MAJOI	R DE	/ELOP	MENT	AILES.	MILESTONES:															
			Ω.	Planned	77	Acc	Accomplished	shed							Planned	eq	Acc	Accomplished	ped		
Validate Materiel change (MC)	hange (I	MC)					3094	4		Δ	eliver	First	Deliver First Mod Kit	Ħ	30	3002					
Critical Design Review	iew			ĕ	3000					ΙÏ	rst Ur	it Eq.	First Unit Equipped (FUE)	(FUE)	40	4Q02					
Complete Testing of Prototype	of Protol	type			4Q00						eliver	Last	Deliver Last Mod Kit	<u>;</u> =	4	203					
Release Technical Data Package (TDP) Award Contract for Modification Kits	Data Pa Modific	acka	ge (T		1001 2001					_	Last L	Jnit E	Last Unit Equipped	70	7	1004 4					
Installation Schedule:																					
امً	Pr Yr		FY 1999	6			Ē	FY 2000			"	FY 2001			F	FY 2002			FY 2003	03	
Ĕ	Totals	+	2	3	4	-		2	3	4	\dashv	2	3	4	-	2	3 4	-	2	3	4
Inputs		_									_					20	08 0	08	80	80	36
Outputs		\dashv	\dashv						_	_	\dashv	-		\dashv	_	_	20	80	8	8	80
																		İ			
	¥-	FY 2004	정			ב	FY 2005			"	FY 2006	}	\dashv	4	FY 2007			τo		2	Totals
	1	2	3	4	_	2		3	4		7	က	4	-	2	03	Δ	Complete			
Inputs																					406
Outputs	36		1	\exists					\downarrow	-	-	1	-	-	-	-		7			400
METHOD OF IMPLEMENTATION:	TATION:		Unit Application	ication		ADMIF	IISTR/	TIVEL	ADMINISTRATIVE LEADTIME:	ij K	က	Months	ths	PRO	DUCTIC	PRODUCTION LEADTIME:	TIME:	13	Months		
Contract Dates:		Ĺ	FY 1999					FY 2000	00					FY 2001	8						
Delivery Date:		Ĺ	FY 1999					FY 2000	8					FY 2001	901						

			INDIVIDUA	INDIVIDUAL MODIFICATION	z			Date	Februs	February 2000	
MODIFICATION TITLE (Cont):	3L	TBD2 Block2 Up	Jpgrade	,							
FINANCIAL PLAN: (\$ in Millions)	FY 1998	-									
	and Prior	FY 1999	FY 2000	FY 2001	7 200	/ 200	200	7 200	2	TOTAL	
	Oty \$	Qty \$	Cty \$	Oty \$	Qty \$	Qfy \$	Oty \$	\$ A	Oty \$	ĝ	s
RDT&E PROCUREMENT				140	155	111				406	
Kit Quantity							-				
Installation Kits Nonrecurring											
Equipment				4.284	4.311	3.390					11.985
Equipment, Nonrecurring											0.340
Engineering Change Orders		0.600	0.742	0.082	0.065	0.085					1.574
Data											
Training Equipment			0.108		-						0 126
Support Equipment			1 270		0.328						2.245
Contractor Support			0.022	0.034	0.025	0.030					0.111
	•										

Installation of Hardware											
FY 1998 & Prior Eqpt Kits								-			
FY 1999 Eqpt Nits											
FY 2000 Eqpt Kits					0 128	00 00				140	303
FY 2001 Eqpt Nits						8 4				, t	0.411
F Y 2002 Eqpt Kits										3 5	. 9
FY 2003 Eqpt kits							<u> </u>			=	5.5
FY 2004 Eqpt kits											
FY 2005 Eqpt kits											
TC Equip-Kits					- 1						1
Total Installment					20	326				406	1.123
Total Procurement Cost		0.600	2.500	4.705	4.857	4.842	2				17.504

								Date:				
		Exhibit P-40, Budget	0, Budget It	Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	il No:					P-1 Item Nomendature:	ire:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMBT	VEHS / 2 / Weapons	and Other Combat \	Vehicles				M16	M16 RIFLE MODS (GZ2800)	(00)		
Program Elements for Code B Items:				Code:	Other Related Program Elements:	an Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	33.6	4.9	4.5	5.2	7.1	9.6	2.1	0.0	2.4	2.4	0.0	71.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	33.6	4.9	4.5	5.2	7.1	9.6	2.1	0.0	2.4	2.4	0.0	71.9
Initial Spares												
Total Proc Cost	33.6	4.9	4.5	5.2	7.1	9.6	2.1	0.0	2.4	2.4	0.0	71.9
Flyaway U/C										·		
Wpn Sys Proc U/C							_					

DESCRIPTION: The M16 family of rifles is a gas operated, magazine fed and shoulder fired weapon. They are fed by 30 round magazines. The M16 Rifle Modifications Program provides a close combat optic, a modular weapon system suite: which includes a rail system, a top carry sling and a permanently affixed, rear aperture, backup iron sight for the M1644 Rifle. The modular weapon allows the custom configuration of the M16 rifles with accessories and smaller items. i.e. optics, night sights, laser pointers, based on mission requirements.

JUSTIFICATION: The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality and allows the combat commander to custom configure weapons with accessories (i.e. day/night sights, laser pointers, ancillary weapons, etc.) based upon the mission. The top carry sling maintains the rifle in an upright position freeing the user's hands for other tasks. The permanent back-up, rear aperture, iron sight provides that capability in the event it becomes immediately necessary.

Exhibit P-40M	Justification Shee
	Item
	3udget

						Date				
Ш	Exhibit P-40M Budget If	tem Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No.				P-1 Item Nomenclature						
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	/EHS / 2 / Weapons and Other Combat \	/ehicles				M16	M16 RIFLE MODS (GZ2800)	(00		
Program Elements for Code B Items		Code	Other Related Program Elements	am Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	ပ	Total
Modular Weapon System M16/M203	33									
TBD1 Operational	4.3	3.5	7.2	9.6	2.1	0.0	2.4	2.4	0.0	31.5
Close Combat Optic M16										
TBD2 Operational	7.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
Totals	12.2	5.2	7.2	9.6	2.1	0.0	2.4	2.4	0.0	41.1
* The Prior Year Total on the P-40 includes \$30.9 of programs no longer on this line plus \$12.2M of programs	includes \$30.9 of progre	ams no long	er on this line	9 plus \$12.2M	of programs	. (0				
				•						

presently being executed, while the FY 1998 Total on the P40M (\$12.2M) only addresses the later.

		INDIVIE	INDIVIDUAL MODIFICATION	DIFICAT	NOI						Date		February 2000	2000	T
MODIFICATION TITLE: Modular Weapon	eapon System	System M16/M203 TBD1	3 TBD												
SAFFECTED:	Rifle, 5.56mm M16A2	7													
DESCRIPTION / JUSTIFICATION:															
The modular weapon is a system of mc and ancillary items such as optics, nigh requirements in the field, without tools.	em of mountin vtics, night sigh out tools.	mounting rails/methods that allows the custom configuration of M16 Rifles with accessories ight sights, IR aiming light, the grenade launcher, back-up sights, etc., based upon mission Is.	thods the	nat allo ., the g	ws the renade	custom Iaunch	config er, bac	juratior :k-up s	of M′ ights, e	16 Rifle etc., ba	ss with	access oon mis	ories		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	VELOPMENT MIL	ESTONES:			PLANNED	NED				AC	ACTUAL				
Developmental/Operational Tests Milestone III Production Decision	sts									g	3Q95-2Q96 3Q97	9			
Production Contract Award First Production Hardware Delivered	ivered										4Q97 4Q98 2Q99				
	-					ļ								ļ	
Installation Schedule:	FY 1999		FY 2000			FY 2001	=		"	FY 2002			FY 2003	03	
Inputs Totals 1	3	1	2	8	4	2	e	4	-	2	3	7	2	е -	4
EX 2004	704	FY 2005	č		Ϋ́	FY 2006			FY 2007			P		Totals	als
1 2	3 4	1 2	3	4	1 2	3	4	-	2	8	14 Q	Complete			
Inputs										3					
OF IMPLEMENTATION:	licatic		ADMINISTRATIVE LEADTIME:	LEADTI	ME:	9	Months	R 5	PRODUCTI	ION LEAD	PRODUCTION LEADTIME:	12	Months		
Contract Dates: F Delivery Date: F	FY 1999 Jul 99 FY 1999 Jan 00	00 6	FY 2 FY 2	FY 2000 FY 2000	Dec 00			<u> </u>	FY 2001	Dec 01	5				

			MDIVIDU	INDIVIDUAL MODIFICATION	N.			Date	Februa	February 2000	П
MODIFICATION TITLE (Cont):	M	odular Weapo	on System M	Modular Weapon System M16/M203 TBD1	1						
FINANCIAL PLAN: (\$ in Millions)	FY 1998						1				
	and Prior	FY 1999	FY 2000	/ 200	7200	/ 200	58	8	읻	OTAL	7
	Qty \$	Qty \$	Oty \$	Qty \$	Qty \$	Oty \$	Offy &	Çî2	r cr		٦ (
RDT&E	1.158									<u>-</u>	1.158
PROCUREMENT		,		000	000		7010	4010		51723	
Quantity (Rail Systems)	4903	0009	12000	1/800	0021		5	2		2	
Installation Kits											
Installation Kits, Nonrecurring	0000		6 000	0 220	1 850		2 200	2.200		29.	29.167
Hardware	3.0/0	•									
Equipment, Nonrecurring							0 447	0 111			314
Engineering Support	0.402	0.247	0.150	0.150	0.137		- -	5		: c	0.055
Testing	0.055										200
Integrated Logistical Support	0.065	0.025		090.0	0.050		0.050	0.050		<u></u>	0.323
Fielding	0.078	0.057	0.173				0.050			oʻ 	.610
Other											
Interim Contractor Support											
											-
Installation of Hardware										000	-
FY 1998 & Prior Eqpt Kits	2000	2500	403							£ 2000	
FY 1999 Eqpt Kits			0009							9000	
FY 2000 Eqpt Kits				10000	2000					12000	
FY 2001 Eqpt Kits					15000	2800				17800	
FY 2002 Eqpt kits						1200				1200	
FY 2003 Eqpt kits	198							7010		4910	
FY 2004 Eqpt kits								2 6	9	250	
FY 2005 Eqpt kits									4910	0184	
1C Equip-Kits	2000	2500	6403	10000	17000	4000		4910	4910	51723	
Total Descriptions Cost	4.3				2.1		2.4	2.4			31.5
Total Floodiement Cost											1

								Daio		2007	Γ
MODIFICATION TITLE (Cont):	OS	Close Combat C	bat Optic M16 TBD2	D2							
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	EV 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL	Γ
	Oty &	Oty \$	Cty Cty	Oty \$	Oty \$	Oty \$	Qty \$	Oty \$	Oty \$	ξ	s
RDT&E	1.470	ı								-	1.470
PROCUREMENT			_							43266	
Quantity	36161	7105								90754	
Installation Kits						,					
Installation Kits, Nonrecurring										α	777
Hardware	6.993	1.454								o o	1 6
ECP	0.026									<u> </u>	0.020
Engineering Support	0.721	0.215		_						o (0.930
Testing	0.062			_						o (790.0
Integrated Logistical Support	0.070	0.010								o (0.080
Fielding	0.070									ာ် 	0.080
Other											
Interim Contractor Support											
								• ,			
Installation of Hardware										7070	
FY 1998 & Prior Eqpt Kits	12601	16949	6611							30.00	
FY 1999 Eqpt Kits			7105							7105	
FY 2000 Eqpt Kits			_								
FY 2001 Eqpt Kits								440-			
FY 2002 Eqpt kits											
FY 2003 Eqpt kits											
FY 2004 Eqpt kits											
FY 2005 Eqpt kits											
TC Equip-Kits											T
Total Installment	12601	16949	13716							43266	Č
Total Procurement Cost	7.9	1.7									9. 0.

Exhibit P-40,	et Item Justification Sheet
	tacher

								Date:				
		Exhibit P-40, Budget	_	tem Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomendature:	79:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	VEHS / 2 / Weapon≀	s and Other Combat	Vehicles			Z	ODIFICATIONS LE	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV (GC0925)	CV-WTCV (GC092	5)	
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv												ļ
Gross Cost	72.8	9.0	1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	82.4
Less PY Adv Proc			_									
Phis CY Adv Proc												
Net Proc (P-1)	72.8	0.6	1.3	1.	1.0	9.0	1.3	0.8	1.3	1.3	0.0	82.4
Initial Spares												
Total Proc Cost	72.8	9.0	1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	82.4
Fivaway U/C												
Whan Sve Drac 11/C												

JUSTIFICATION: Funds identified in FY00/FY01 will provide M145 Machine Gun Optic Sights for the M249, M60 and M240B Machine Guns. The optic sight will allow the soldier to identify and engage targets more effectively than the existing iron sighting system. The optic sight also provides the soldier with a greater hit probability.

	Exhibit P-	Exhibit P-40M Budget Item Justification Sheet	m Justifica	ation Sheet			Date		February 2000		
Appropriation / Budget Activity/Serial No.					P-1 Item Nomenclature		ODIEICATIONS LES	SS THAN \$5.0M (W	MODIFICATIONS ESS THAN \$5.0M (WOCV-WTCV) (GC0925)		
PROCUREMENT OF	PROCUREMENT OF WINS & TRKD CMBT VERS / Z / Weapons and Other Controls	ons and ouner continuar ve									
Program Elements for Code B Items	su		Code	Other Related Program Elements	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
M145 Machine Gun Optic TBD1 Ope	Optic Operational	1.3	1:1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	9.0
Totals		1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	9.0
* The Prior Year To	* The Prior Year Total on the P-40 includes \$ 73.5M of programs no longer on this line.	73.5M of prog	rams no lor	iger on this li	ji G						

MODIFICATION TITLE: Machine Gun Optics TBD1	
MODELS OF SYSTEMS AFFECTED: M249 Squad Automatic Weapon; M60 Machine Guns, M240B Machine Guns	
DESCRIPTION / JUSTIFICATION:	
The M145 Machine Gun Optic Program provides a 3.4x, laser hardened telescopic sight for the 5.56mm M249 Light Machine Gun, the	the t
M60 and 7.62mm M240B Medium Machine Guns. The optic sight will allow the soldier to identify and engage targets at longer ranges	ges
and at lower light levels more effectively than the existing iron sighting system. The optic sight also provides the soldier with a greater the	
probability.	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE PLANNED ACTUAL	
Development/Operational Tests	
First Production Hardware Delivered T.mo Classification (Standard)	
2000	
Installation Schedule:	
Pr Yr FY 1999 FY 2000 FY 2001 FY 2002 FY 2003	33
Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2	4
Inputs	
Outputs	
FY 2004 FY 2005 FY 2006 To	Totals
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 Complete	
Inputs	
lication ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION	
s: FY 1999 Sep 99 FY 2000 Jan 00 FY 2001	
Delivery Date: FY 1999 Jan 00 FY 2000 Mar 00 FY 2001 Mar 01	

February 2000

INDIVIDUAL MODIFICATION

			INDIVIDUA	INDIVIDUAL MODIFICATION	Z			Date	Februa	February 2000	П
MODIFICATION TITLE (Cont):	Ma	Machine Gun Op	Optics TBD1						1		
FINANCIAL PLAN: (\$ in Millions)											
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	7	TOTAL	
	Oty \$	Oty \$	Qty \$	Oty \$	Qty \$	Oty \$	Qty \$	Qty \$	Oty \$	ð	\$
RDT&E	2.127										2.127
PROCUREMENT						, (0,00	2402		12775	
Quantity	1901	658	1436	1133	2029	1254	7,187	7017		2 2	
Installation Kits											
Installation Kits, Nonrecurring							4 200	1 108			7 0 7
Hardware	1.177	0.354	0.773	0.610	1.09.F	0.0/4					
Equipment, Nonrecurring							0.070	8200			1 249
Engineering Support	0.106			0.137	0.122	0.133					0.354
Testing	0.034										0.159
Integrated Logistical Support	0.020	0.019	0.020		0.020	0.020	0.020	0.020			0.150
Fielding	0.010			0.020							3
Other											
Interim Contractor Support											
Installation of Hardware		****			·					,	
FY 1998 & Prior Eqpt Kits			1901							1901	
FY 1999 Eapt Kits			658							809	
FY 2000 Eqpt Kits			862	574						1436	
FY 2001 Eqpt Kits				089	453					1133	
FY 2002 Eqpt kits					1217	812	,			2029	·
FY 2003 Eqpt kits						752	502	010		1234	
FY 2004 Eqpt kits							1309	8/3	į	707	
FY 2005 Eqpt kits								1309	8/3	7917	
TC Equip-Kits			3	7.07	4670	1564	1811	2182	873	12775	
Total Installment			3421	1254	16/0	1204					0
Total Procurement Cost	1.3	1.1	1.0	0.8	1.3	9.0	6.1				3

								Date:				
		Exhibit P-40, Budget	0, Budget It	t Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	rē:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VPNS & TRKD CMB1	⁻VEHS / 2 / Weapon	s and Other Combat	Vehicles				ITEMS LESS TH	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)	/TCV) (GL3200)		
Program Elements for Code B Items:	S:			Code:	Other Related Program Elements:	am Elements:	·					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv												
Gross Cost	64.3	6.0	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.0	75.3
less PY Adv Proc												
Phis CY Adv Proc												
Net Proc (P-1)	64.3	6.0	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.0	75.3
Initial Spares												
Total Proc Cost	64.3	6.0	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.0	75.3
Fivaway U/C												
Oll one Dung 11/0												

DESCRIPTION: Provides for procurement and assembly of tool/shop sets, small arms, and gun mounts. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and ROTC units to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance. JUSTIFICATION: Required to achieve and sustain required levels of readiness to units providing maintenance support to all small arms (M16,9mm Pistol, 7.62 Machine Gun, etc.), artillery (M102,M119,M198 Howitzers, etc.), air defense (Vulcan, PIVAD, etc.) special weapons, and fire control (Tanks, etc.) organizations. Small Arms weapons are required to support AAO shortages, field replacements and training requirements.

it P-5, \		Appropriation/ Budget Activity/Serial No:	Budget Activ	/ity/Serial No	: CMRT	<u>a.</u>	-1 Line Item ITEMS I ESS	P-1 Line Item Nomenclature: ITEMS I ESS THAN \$5.0M (WOCV-WTCV)	VOCV-WTCV)		Weapon System Lype:	lype:	Date: Feb	February 2000
WICV Cost Analysis		VEHS / 2 /	Weapons ar	VEHS / 2 / Weapons and Other Combat	nbat			(GL3200)						
	al		FY 98	~			FY 99			전 전			전	
Cost Elements	8		φ	UnitCost	ost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			Each	╟	0	000\$	Each	\$000	000\$	Each	000\$	000\$	Each	\$000
1. Shot Gun, 12 Guage G124	24 A					104	400	0.260	100	400	0.250			
2. Shop Equip, Small Arms G337 Repair, Shelter Mtd 4940-00-209-6236						80	8	40						
3. Tool Set, Instrument and G371 Fire Control FM 4931-00-754-0740	4				·				56	2	28	56	2	28
4. Shop Set, Small Arms, G385 Field Maint, PCS Set D 4933-00-348-7396	92 V			-		184	2	92				150	2	75
5. Shop Set, Small Arms G723 FM Basic 4933-00-754-0664	۷ 8								19	~	. 19	38		19
6. Tool Set Battalion Maint G427 4940-01-140-2364	۷					501	63	ω .	532	99	80	456	57	8
7. Tool Kit, Electronic Sys Maint S380 5180-01-168-0487	∢					302	28	-	465	78	9	457	76	9
8. Shop Set, Small Arms, FM Basic 4933-00-754-0664	∢					25	~	25						
9. Engineering Support for GL3200 budget line							·			~	29	25	~	25
TOTAL						1196			1201			1182		

Exhibit P-40	Justification Shee
	Item
	Budget

								Date:				
		Exhibit P-40, Budget		em Justifica	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	tal No:					P-1 Item Nomendature:	re:					
PROCUREMENT OF	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	VEHS / 2 / Weapon.	s and Other Combat	Vehicles				PRODUCTION BAS	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)	V-WTCV) (GC0050)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv												
Gross Cost	739.7	4.9	6.1	5.1	4.5	5.2	5.4	4.8	5.5	5.7	0.0	786.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	739.7	4.9	6.1	5.1	4.5	5.2	5.4	4.8	5.5	5.7	0.0	786.9
Initial Spares												
Total Proc Cost	739.7	4.9	6.1	5.1	4.5	5.2	5.4	4.8	5.5	5.7	0.0	786.9
Flyaway U/C												
Who Svs Proc U/C												

Description: This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish modernize, expand and replace facilities owned by the Army and provide Production Support and Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment used in production, production testing of Weapons and Tracked Combat Vehicles. Also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment and portions of plants which are no longer required for active production.

Grounds, and White Sands Missile Range (WSMR) and layaway and excess individual items of Industrial Plant Equipment which is excess to production requirements at Rock Island and Watervliet Arsenals. Funds will also be used to provide preservation for Government-owned equipment and real property facilities to allow Justification: The FY01 request includes essential funding for replacement of equipment & instrumentation in production test facilities at Aberdeen, Yuma Proving subsequent cost-effective Operation and Maintenance, Army storage.

Exhibit P-5, Weapon WTCV Cost Analysis	<	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat	get Activity/s OF WPNS 8	Serial No: % TRKD CMBT ther Combat		P-1 Line Iten PRODUCT	P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)	ORT (WOCV-		Weapon System Type:		Date: Febru	February 2000
0	₽		FY 98			FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	ģ	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Q Q	UnitCost
	Ħ	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
Provides funds to replace, modernize and upgrade equipment and instrumentation used in production testing of Wpns & Trkd Cmbt Vehs. Upgrading will be performed on automotive performance test equipment, vehicle dynamics, high speed imaging, interior exterior ballistics support inst, and toxic fumes instrumentation at Abdereen Test Center, White Sands Missile Range, and Yuma Proving Ground.					1689			1652			3482	and the second s	
portions of plants which are no longer required for active production, but must be retained for future use. Also provides for plant clearance/preparation of equipment to be excessed.													
тотаг					5140			4546			5152		

								Date:				
		Exhibit P-40, Budget	0, Budget It	Item Justification Sheet	ation Sheet					February 2000		
Appropriation / Budget Activity/Sertal No:	al No:					P-1 Item Nomenclature:	.e.					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles	APNS & TRKD CMBT	r VEHS / 2 / Weapon	s and Other Combat	Vehicles				INDUSTRIA	INDUSTRIAL PREPAREDNESS (GC0075)	(GC0075)		
Program Elements for Code B Items:	. <u>;;</u>			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	49.1	4.8	2.9	3.0	3.1	3.6	4.2	3.2	2.7	2.7	0.0	79.4
l ass DV Adv Proc												
201 1 201 1 202												
Plus CY Adv Proc												
Net Proc (P-1)	49.1	4.8	2.9	3.0	3.1	3.6	4.2	3.2	2.7	2.7	0.0	79.4
Initial Spares						,						
Total Proc Cost	49.1	4.8	2.9	3.0	3.1	3.6	4.2	3.2	2.7	2.7	0.0	79.4
Flyaway U/C												
Wpn Sys Proc U/C												
									•			-

DESCRIPTION: This program provides funding to retain, protect, and maintain laidaway reserve industrial plants and equipment. Costs include grounds, utilities, fire and guard protection. Also includes funding for condition assessments of laidaway facilities and costs to rehabilitate equipment to useable condition.

JUSTIFICATION: The FY01 request supports the equipment and facilities at Rock Island Arsenal, Watervliet Arsenal, and Hawthorne Army Depot. It includes the overhead costs attributed to the laidaway portions of the Arsenal. Funds will also be used for the storage and maintenance costs of equipment which has been laidaway for future production.

								Date:				
		Exhibit P-40, Budget		em Justific	Item Justification Sheet					February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomendature:	re:					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Comb	WPNS & TRKD CMBT	TVEHS / 2 / Weapon	s and Other Combat	bat Vehicles				SMALL ARMS	SMALL ARMS (SOLDIER ENH PROG) (GC0076)	JG) (GC0076)		
Program Elements for Code B Items:	:S:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qtv												
Gross Cost	2.4	5.2	4.5	2.4	5.1	3.5	0.3	2.0	2.4	1.9	0.0	29.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.4	5.2	4.5	2.4	5.1	3.5	0.3	2.0	2.4	1.9	0.0	29.7
Initial Spares												
Total Proc Cost	2.4	5.2	4.5	2.4	5.1	3.5	0.3	2.0	2.4	1.9	0.0	29.7
Flyaway U/C												
Wpn Sys Proc U/C												

adjustable cheek piece to steady the soldiers aim (all are available as non-developmental items); the Fire Support Team Vehicle (FISTV) and the Improved TOW Vehicle on the existing weapon station of the Armament HMMWV; an M203 Enhanced Fire Control Device which provides a reliable, man-portable interface/platform capable of allowing the soldier to utilize the weapon system to achieve significantly increased first round probability of hit on point and area targets at the maximum effective range DESCRIPTION: This program provides small arms equipment for the soldier. Funding identified in FY00/FY01 will provide the soldiers with the following; a Dual Mount M197 HMMWV Mount (consisting of a pintle adapter, pintle, and travel lock) which provides the capability to mount either the 7.62mm M240B or the 5.56mm M249MG (ITV) are currently equipped with a weapon mount which accepts the M60 MG (which is being replaced by the M249 MG which does not fit into the existing FISTV/ITV that can be used in both the vehicular (Armament HMMWV) and ground mount application for the MK19 Grenade Machine Gun (GMG) and M2 Heavy Barrel MG; an of the system; a Sniper Accessory Kit that will contain a hand held wind meter, a low profile bipod, a polarized filter for a day scope, a compact cleaning kit and an weapon mount). The M249 Mounting Kit for the FISTV/ITV will provide an expedient method to convert the existing weapon mount to accept the M249 MG.

have been increased to allow fielding to Infantry Anti-Armor and Military Police units. The system corrects the shortcomings of the current MK64 system allowing for bold JUSTIFICATION: The Dual Mount will be fielded to scout platoons enabling them to install or switch weapons quickly in the event one vehicle goes down. Quantities HMMWV Mount allows quick mounting of either the M240B or the M249 MG without tools and permits improved operator control of the weapon in both traverse and Accessory Kit. Tasks under SEP are accomplished in an expedited manner. The M249 Mounting Kit for the FISTV/ITV enables the existing weapon mount to readily and accurate traverse and elevation, further range (elevation) for the MK19, recoil attenuation of the M2 MG and capability for range card preparation. The M197 counterfire. The Soldier Enhancement program (SEP) was established by Congress to provide essential equipment for the individual soldier such as the Sniper elevation. The M203 Fire Control Device will make the M203 weapon system quicker and more accurate to use, save ammunition and subject the user to less accept the M249MG to replace the M60 MG.

Exhibit P-5,	Weapon System Cost Analysis

it P-5,		Appropriation/ Budget Activity/Serial No:	dget Activity/	Serial No:		P-1 Line Item	P-1 Line Item Nomenclature:	FNH PROG)		Weapon System Type:	Гуре:	Date: Feb	February 2000
WTCV Cost Analysis		VEHS / 2 / Weapons and Other Combat	apons and C	of I Combat		CHUCK	(GC0076)	(2001)					
	₽		FY 98			FY 99			FY 00			FY 01	
Cost Elements	8	TotalCost	Oth	UnitCost	TotalCost	Ωty	UnitCost	TotalCost	Offy	UnitCost	TotalCost	ğ	UnitCost
		000\$	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	0000
1. Hardware MK93 MOD 1 Dual Mount HMMWV Mount M1025/1026 (Quantity) HMMWV Mount M1025/1026 (Quantity) Dismount Kits M203/M4 Fire Control Sniper Accessory Kit FISTV / ITV Mount	4444				15 202 1170	19 180 3130		127 754 1275 830	163 500 2230 2000	- 0 +	2343	2343	- -
2. ESIP Dual Mount HMMWV M249 Mount M203/M4 Fire Control Sniper Accessory Kit FISTV / ITV Mount		22222			125			473 275 175			125		
3. Testing M203/M4 Fire Control FISTV / ITV Mount								205					
4. Integrated Logistics Support Dual Mount HMMWV M249 Mount M203/M4 Fire Control Sniper Accessory Kit FISTV / ITV Mount					40			150			25		
5. Fielding Dual Mount HMMWV M249 Mount M203/M4 Fire Control Sniper Accessory Kit FISTV / ITV Mount					121			150 225 30			15		
6. PM-SA Support (Previously funded under OMA)					482			274			148		
TOTAL					2365			5133			3506		

							<u> </u>	Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					Fet	February 2000	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	ım Type:		P-1 Line Item Nomenclature:	omenclature:				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles					0)	SMALL ARMS	SMALL ARMS (SOLDIER ENH PROG) (GC0076)	ROG) (GC	020	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αту	Unit Cost	Specs I Avail F	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	_	Avail	

HMMWV Mount / FY99 M6 Pedestal	Ramo Manufacture Inc.,	C/FFP	ARDEC							
M197 Mount	Nashville, TN Ma-Tech Inc, Hebron, Va	(Option) SS/8A	TACOM-RI	Jul-99 Mar-00	Mar-00 Oct-00	3130	-			
HMMWV Mount / FY00 M6 Pedestal M197 Mount	TBS TBS	C/FFP C/FFP	ARDEC TACOM-RI	Jul-00 Jun-00	Mar-01 Mar-01	500	7			Mar 00
Dismount Kits/FY98	FNMI, Columbia, SC	SS/FFP	TACOM-RI	Sep-98	66-Inc	2000	7			
Dual Mount / FY98 Dual Mount / FY99 Dual Mount / FY00	7BS 7BS 7BS	C/FFP C/FFP C/FFP	TACOM-RI TACOM-RI TACOM-RI	Mar-00 Mar-00	Dec-00 Mar-01	1240 19				
M203/M4 Fire Control / FY01	TBS	C/FFP	ARDEC	Jan-01	Dec-01	2343	-			Oct 00
Sniper Accessory Kit / FY01	TBS	C/FFP	ARDEC	May-01	Oct-01	1062	_			Jun 00
FISTV/ITV Mount / FY00	ТВS	C/FFP	ARDEC	Jun-00	Jan-00	2000				Mar 00
REMARKS:										

								Date:				
		Exhibit P-40, Budget	0, Budget It	Item Justification Sheet	ation Sheet			!		February 2000		
Appropriation / Budget Activity/Serial No:	al No:					P-1 Item Nomenclature:	ıre:					
PROCUREMEN	PROCUREMENT OF WPNS & TRKD CMBT VEHS / 3 / Spares and Repair I	CMBT VEHS / 3 / Sp	ares and Repair Parts	23	-			SPARES AND	SPARES AND REPAIR PARTS (WTCV) (GE0150)	TCV) (GE0150)		
Program Elements for Code B Items:	:SL			Code:	Other Related Program Elements:	ram Elements:						
		TV 4007	- A	EV 1000	EV 2000	EV 2001	EV 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
	Prior rears	1881	066111	6661 17	2007							
Proc Oty	6	200	16.4	20.4	20.7	20.1	98.9	36.0	33.4	33.4	243.6	517.1
Gross Cost	79.0	20.7	10.1	20.1	777	7.67	2:55					
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	25.6	20.2	16.1	20.1	22.7	29.1	36.9	36.0	33.4	33.4	243.6	517.1
Initial Spares												
Total Proc Cost	25.6	20.2	16.1	20.1	22.7	29.1	36.9	36.0	33.4	33.4	243.6	517.1
Flyaway U/C												
Wpn Sys Proc U/C												
 	Provides for procurement of spares to support initial fielding of new or modified end items.	ocurement o	of spares to s	support initia	i fielding of n	new or modifi	ed end items					
JUSTIFICATION: The funds in this account procure depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:	The funds in the rovide initial si	nis account p upport, fund	rocure depo s are normal	t level repar ly required ir	able (DLR) s ı the same y	secondary iter rear that end	ms from the ! items are fiel	Supply Mana Ided. Initial ध	agement, Arn spares break	my activity of cout:	the Army Wo	orking
		FY99	FY00	FY01								
BFVS		7.1	9.1	•								
M88A1E1 (Hercules)	0	0	0	2.8								
HAB (Wolverine)		0.0	1.3	0	_							
ABRAMS Upgrade		9.7	9.7	14.8								
Cmd & Ctrl Veh (C2V)	(\cdot)	2.4	2.6	0								
TOTAL		20.1	22.7	29.1								